

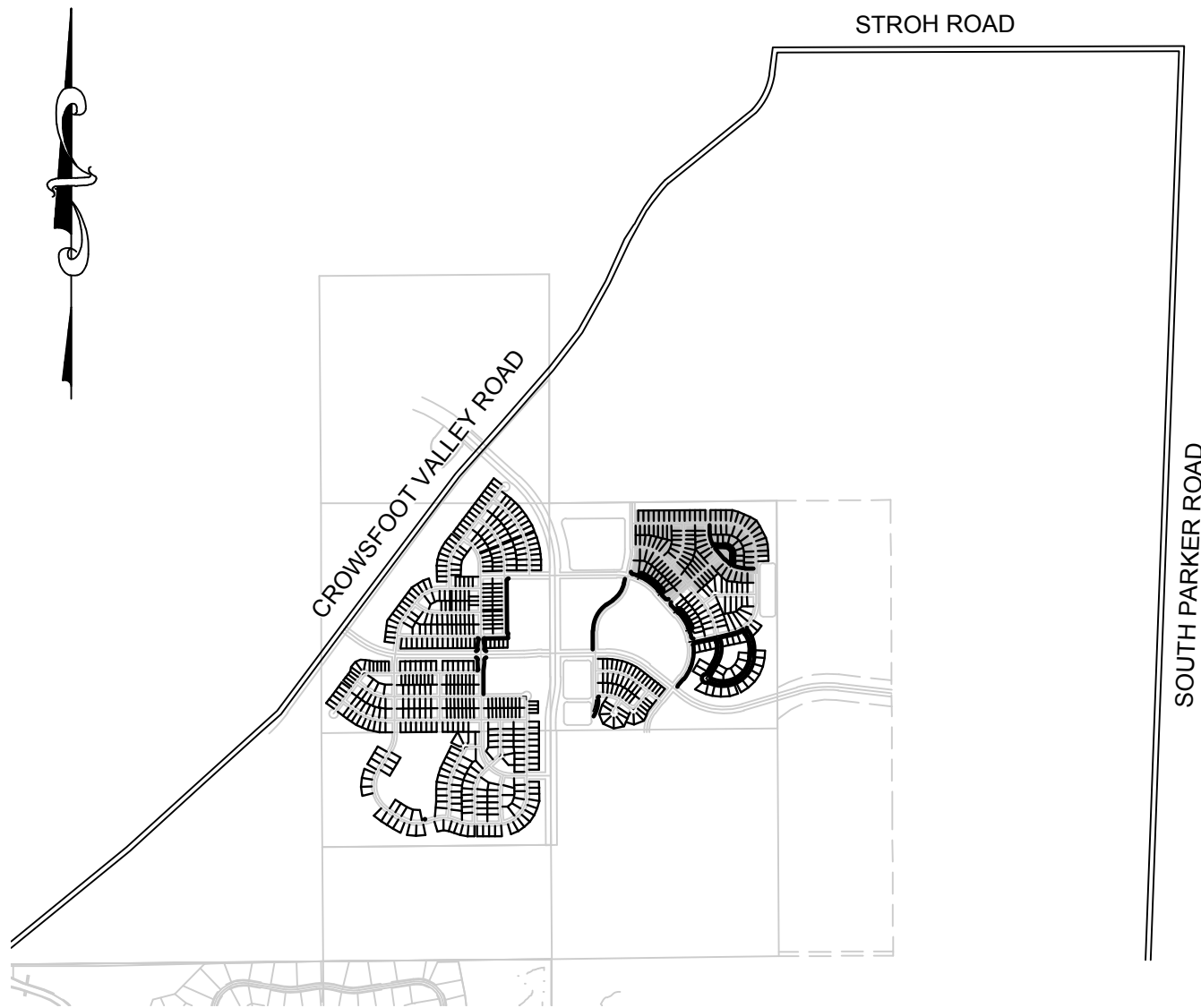
N:\PROJECTS\BENCH MARK\ENGINEERING\DRAWING\SET\BENCH MARK\COVER.DWG, CDDVA, 8/22/2017 2:42 PM

TRAILS AT CROWFOOT

FILING 10 UTILITY CONSTRUCTION PLANS

SECTIONS 4, 8, AND 9 TOWNSHIP 7 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN COUNTY OF DOUGLAS, STATE OF COLORADO

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	PARKER WATER AND SANITATION NOTES
3	AREA UTILITY PLAN
4	SANITARY P&P BEEBALM AVENUE
5	SANITARY P&P BEEBALM AVENUE
6	SANITARY P&P ALPINE PHLOX LANE
7	SANITARY P&P BEEBALM TRAIL
8	SANITARY P&P COPPERMALLOW TRAIL
9	SANITARY P&P CROWNVETCH CIRCLE
10	SANITARY P&P GRAY ASTER LOOP
11	SANITARY P&P ALPINE DAISY CIRCLE
12	WATER P&P BEEBALM AVENUE
13	WATER P&P BEEBALM AVENUE
14	WATER P&P ALPINE PHLOX LANE
15	WATER P&P BEEBALM TRAIL
16	WATER P&P COPPERMALLOW TRAIL
17	WATER P&P CROWNVETCH CIRCLE
18	WATER P&P GRAY ASTER LOOP
19	WATER P&P ALPINE DAISY CIRCLE
20	SANITARY SEWER DETAILS
21	SANITARY SEWER DETAILS
22	SANITARY SEWER DETAILS
23	WATER DETAILS
24	WATER DETAILS
25	WATER DETAILS
26	WATER DETAILS
27	WATER DETAILS
28	WATER DETAILS



VICINITY MAP

SCALE: 1" = 2000'

MATERIALS LIST		
DESCRIPTION	QUANTITY	UNIT
8" WATERPIPE (C900)	1,852	L.F.
6" WATERPIPE (DIP-FIRE HYDRANT LINE)	67	L.F.
8" GATE VALVE W/ BOX	8	EA.
6" GATE VALVE W/ BOX	4	EA.
FIRE HYDRANT ASSEMBLY	4	EA.
8" BEND	8	EA.
8" TEE	8	EA.
WATER SERVICE LATERAL W/ WATER METER AND PIT	47	EA.
8" SEWER (SDR-35 PVC)	1,736	L.F.
4' DIA. MANHOLE	12	EA.
SEWER SERVICE LATERAL W/ WYE TAP	47	EA.

FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) _____ DATE _____
(NOTE- UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____
(DISTRICT REPRESENTATIVE)

DATE SIGNED: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____
(DISTRICT ENGINEER)

DATE SIGNED: _____

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

DEVELOPER

E5X MANAGEMENT
7353 SOUTH ALTON WAY
CENTENNIAL, CO 80112
TEL: (303) 770-9111
CONTACT: MATT JANKE

PLANNER/ LANDSCAPE DESIGNER:

PCS GROUP, INC.
200 KALAMATH STREET
DENVER, CO 80233
TEL: (303) 531-4905
CONTACT: JOHN PRESTWICH

SURVEYOR/ ENGINEER:

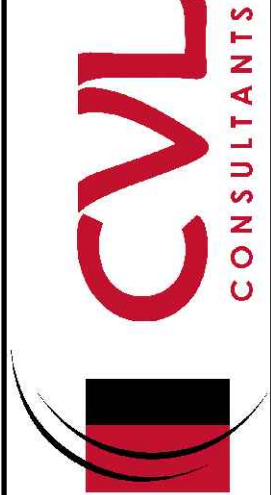
CVL CONSULTANTS
OF COLORADO, INC.
10333 E. DRY CREEK RD. STE 240
ENGLEWOOD, CO 80112
TEL: (720) 482-9526
CONTACT: JIM JANNICKE

UTILITY DISTRICT

PARKER WATER AND
SANITATION DISTRICT
18100 E. WOODMAN DRIVE
PARKER, CO 80134
TEL: (303) 841-4627

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JJ	DATE: SEPTEMBER 2017	SCALE: AS SHOWN	FILE NO: 8130283701	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS COVER SHEET	ESX MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		10333 E. Dry Creek Rd. Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	No.	Date	Init.	Appr.	Date

N:\PROJECTS\BUSH RANCH\CAD\ENGINEERING\DWG SHEET SET\BUSH SF 10 PARKER WATER AND SANITATION\BUSH 10 COVER.DWG, CDDVA, 8/22/2017 2:42 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987
UTILITY NOTIFICATION
CENTER OF COLORADO

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH PARKER WATER AND SANITATION DISTRICT SPECIFICATIONS.
2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
3. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, HE SHALL CONTACT THE ENGINEER IMMEDIATELY.
4. THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS THAT ARE NECESSARY TO PERFORM THE PROPOSED WORK.
6. ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.
7. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" BLUELINE PRINTS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO PRINTING MYLAR SEPIAS FOR THE DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE MYLAR SEPIA PRINTS SHALL BE TRANSMITTED TO THE PARKER WATER AND SANITATION DISTRICT OFFICE.
8. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
9. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
10. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
11. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
12. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER.
13. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SERVICE SEWERS "V" FOR WATER SERVICES
14. NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
15. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.

WATER MAIN NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PARKER WATER AND SANITATION DISTRICT ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISIONS. ALL WORK SHALL BE INSPECTED AND APPROVED BY PERSONNEL OF THE PARKER WATER SANITATION DISTRICT AND THE DISTRICT ENGINEER.
2. ALL WATER MAINS SHALL BE PER PWSO MATERIALS SPECIFICATIONS.
3. ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED WITH 8-MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL PER PWSO MATERIALS SPECIFICATIONS.
4. THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
5. FIRE HYDRANTS SHALL CONFORM TO AWWA C-502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, MATERIALS, AND LABOR WHICH ARE NECESSARY TO INSTALL THE HYDRANT COMPLETE IN PLACE. SEE MATERIALS SPECIFICATIONS FOR APPROVED MODELS
6. ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS AND PLUGS AT DEAD END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS.
7. PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS. THE MORE CLOSELY THE RATE OF DELIVERY IS CORRELATED TO THE RATE OF PIPE LAYING, THE LOWER THE RISK OF CONTAMINATION.
8. CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PARKER WATER AND SANITATION STANDARDS AND SPECIFICATIONS. THE LINES SHALL BE CHLORINATED IN ACCORDANCE WITH ANSI/AWWA C-651-92., "DISINFECTING WATER MAINS." PARKER WATER AND SANITATION DISTRICT REQUIRES THE INITIAL DOSAGE RATE OF DISINFECTION BE AT LEAST 50 MG PER LITER. CHLORINE TABLETS SHOULD BE ADHERED TO THE TOP OF THE PIPE SECTION WITH PERMATRX NO.1 (RED). THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE DONE PRIOR TO THE HYDROSTATIC TESTING.
9. HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS. ALL PIPE SHALL BE FIELD PRESSURE TESTED TO A MINIMUM OF 150 PSI. ALL TESTING SHALL BE DONE IN THE PRESENCE OF A PARKER WATER AND SANITATION DISTRICT INSPECTOR. LEAKAGE FOR EACH SECTION OF PIPE BETWEEN LINES VALVES SHALL NOT EXCEED THE LIMITS SET FORTH IN THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS.
10. VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES WHERE AN ADDITIONAL VALVES SHALL BE PLACED ON THE TAPPING TEE. OTHER VALVE LOCATIONS, SUCH AS WHERE CROSS PANS EXIST, ARE SHOWN ON THE PLANS.
11. WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.50 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
12. THE CONTRACTOR SHALL NOTIFY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE-START.
13. PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS, LATEST REVISION.
14. THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINED THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES.
15. COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
16. VALVE BOXES: TYLER SCREW-TYPE 6 INCHES CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE. CLAY AND BAILEY SCREW-TYPE 6 INCH CAST IRON VALVE BOX ASSEMBLY NO. P-108 WITH NO. 106 LARGE OVAL BASE.
17. ALL PIPE LENGTHS ARE APPROXIMATE.
18. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVE OF OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE PARKER WATER AND SANITATION DISTRICT SPECIFICATION.
2. ALL SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.
3. SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PARKER WATER AND SANITATION DISTRICT STANDARD AND SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.
4. SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
5. THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.
6. NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
7. SEWER SERVICE TEES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.
8. ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED.
9. PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.
10. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
11. ALL PIPE LENGTHS ARE APPROXIMATE.
12. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.
13. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
14. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
15. PRIOR TO START WORK WHERE SEWER MAIN TO BE INSTALLED INTO EXISTING DISTRICT SEWER SYSTEMS. THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL ACCEPTANCE BY THE DISTRICT. ITS PURPOSE SHALL BE TO PREVENT ANY MUD, WATER OR OTHER MATERIALS FROM ENTERING THE LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN SO INSTRUCTED BY THE DISTRICT.
16. PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CLIENT SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

DISTRICT ACCEPTANCE NOTES:

1. UPON COMPLETION OF SANITARY SEWER AND WATER CONSTRUCTION AND TESTING, THE DEVELOPER OR CONTRACTOR SHALL CONTACT THE DISTRICT FOR PROBATIONARY ACCEPTANCE INSPECTION. A PUNCHLIST WILL BE PROVIDED THE DEVELOPER AND CONTRACTOR UPON COMPLETION OF THE INITIAL WALK-THRU AND PROBATIONARY ACCEPTANCE WILL BE ISSUED FOLLOWING COMPLETION AND ACCEPTANCE OF THE WORK OUTLINED IN THE PUNCHLIST.
2. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF THE LINES FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
3. THE DATE OF FINAL ACCEPTANCE WILL BE INDICATED IN THE CONDITIONS OF THE PROBATIONARY ACCEPTANCE LETTER. THE DEVELOPER SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT FOR FINAL INSPECTION AND FINAL ACCEPTANCE.

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

SHEET NUMBER	DRAWN BY: KJD	CHECKED BY: JJJ	DATE: SEPTEMBER 2017	SCALE: AS SHOWN FILE NO: 8130283701	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS PARKER WATER AND SANITATION NOTES	ESX MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		10339 E. Dry Creek Rd. Denver, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions			No.	Date	Init.	Appr.	Date

N:\PROJECTS\SSR\BANCOCAD\ENGINEERING\SSR\BANCOCAD\UTILITY\PLANDWG, CDDVA, 8/23/2017 2:48 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

FIRE DEPARTMENT APPROVAL

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

(FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE) _____ DATE _____

(NOTE: UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA24 WHEN SUBMITTING FOR REVIEW.)

BENCHMARK

DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:

THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

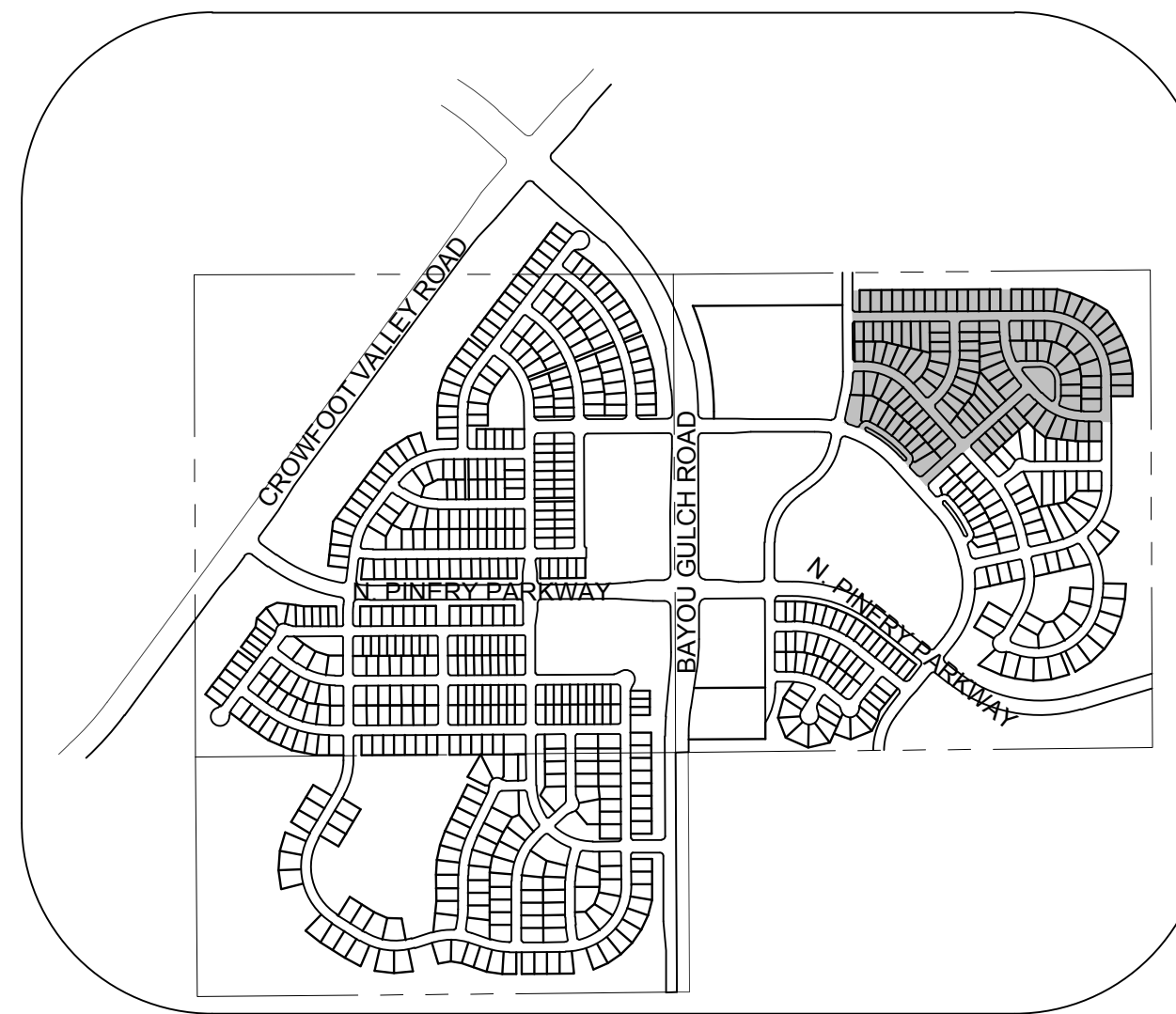
THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULELINE INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ DATE _____
(DISTRICT REPRESENTATIVE)

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ DATE _____
(DISTRICT ENGINEER)



KEYMAP N.T.S. LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
ⓧ	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
ⓧ	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
ⓧ	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
ⓧ	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
ⓧ	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
ⓧ	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
ⓧ	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
ⓧ	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
ⓧ	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
ⓧ	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
ⓧ	EXISTING VALVE	---	SEWER LATERAL
ⓧ	EXISTING FIRE HYDRANT	---	PROPOSED WATER LINE
ⓧ	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
ⓧ	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
ⓧ	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
ⓧ	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
ⓧ	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PI	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9546



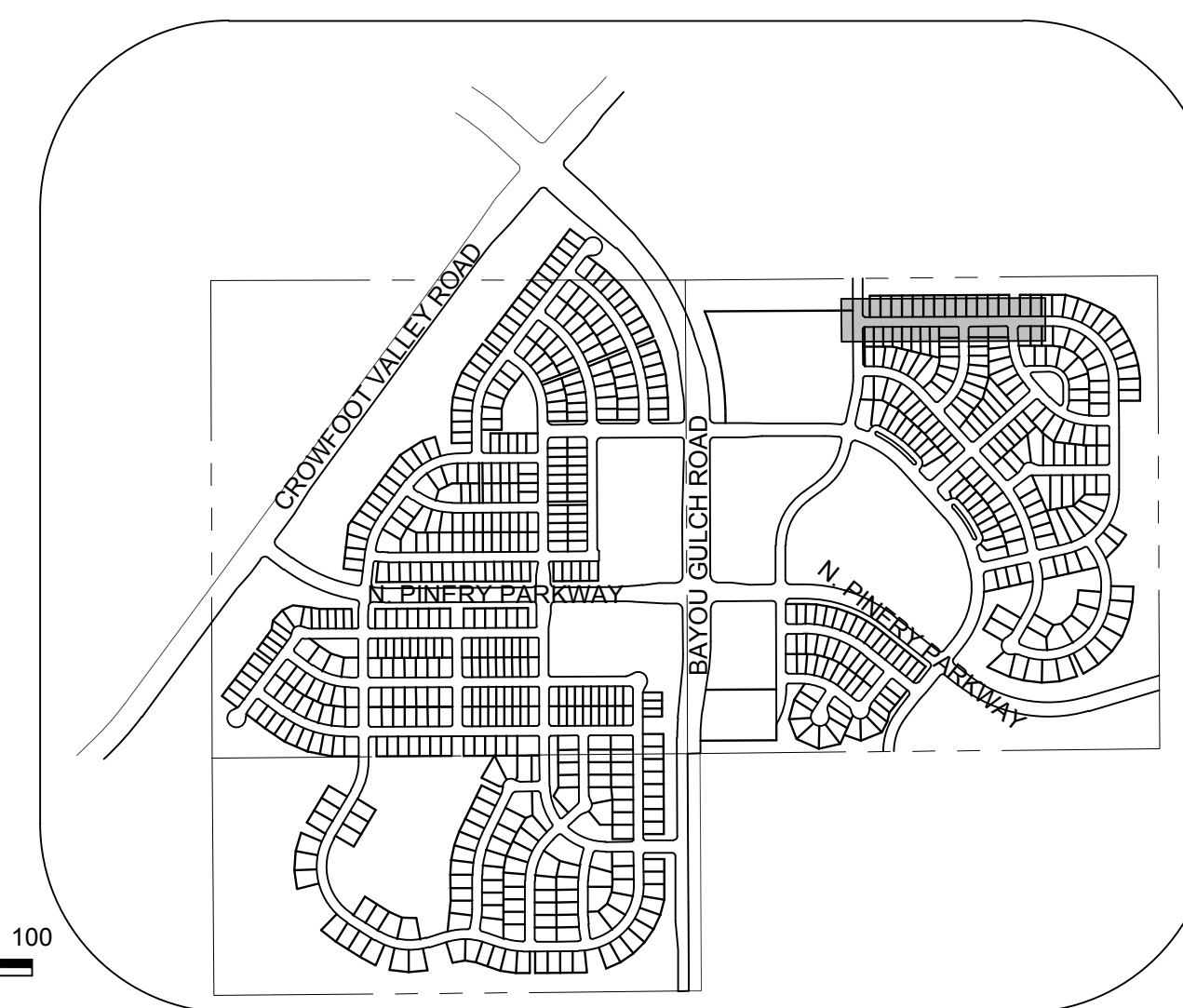
ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
AREA UTILITY PLAN

SCALE: _____
AS SHOWN
FILE NO: 8130283701

DRAWN BY: JLR
CHECKED BY: JJJ
DATE: SEPTEMBER 2017

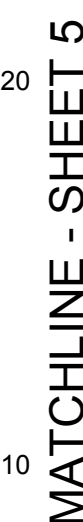
SHEET NUMBER
3

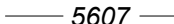
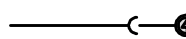
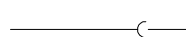
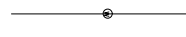
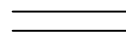
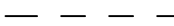


50 25 0 50 100

SCALE: 1" = 50'

KEYMAP
N.T.S.
LEGEND



- | | | | |
|---|--|--|----------------------------------|
|  | BLOCK NUMBER |  | PROPOSED RANGE POINT |
|  | LOT TYPE |  | CENTERLINE |
| 6 | LOT NUMBER |  | RIGHT-OF-WAY |
|  | PROPOSED BUTTERFLY VALVE |  | PROPERTY LINE |
|  | PROPOSED CAP WITH END OF LINE BLOWOFF |  | EDGE OF PAVEMENT |
|  | PROPOSED REDUCER |  | PROPOSED DIRECTION OF FLOW |
|  | PROPOSED VALVE |  | PROPOSED SLOPE & DIRECTION |
|  | PROPOSED FIRE HYDRANT |  | EXISTING 5' CONTOUR |
|  | PROPOSED W/L FITTING WITH THRUST BLOCK |  | EXISTING 1' CONTOUR |
|  | PROPOSED FLARED END SECTION |  | PROPOSED 5' CONTOUR |
|  | PROPOSED LOW POINT BLOW-OFF |  | PROPOSED 1' CONTOUR |
|  | PROPOSED AIR VALVE |  | PROPOSED STORM DRAIN |
|  | EXISTING BLOW OFF VALVE |  | PROPOSED SEWER LINE WITH MANHOLE |
|  | EXISTING VALVE |  | PROPOSED SEWER LATERAL |
|  | EXISTING FIRE HYDRANT |  | PROPOSED WATER LINE |
|  | PROPOSED LIGHT POLE |  | PROPOSED WATER LATERAL W/ METER |
|  | PROPOSED SIDEWALK |  | EXISTING 60" RAW WATER LINE |
|  | PROPOSED SIDEWALK RAMP |  | SECTION LINE |
| 10.00 | EXISTING ELEVATION |  | FILING BOUNDARY |
| 10.00 | PROPOSED DESIGN ELEVATION |  | EXISTING FIBER OPTIC LINE |
|  | PROPOSED STORM DRAIN INLET |  | EXISTING HIGH VOLTAGE LINE |
|  | PROPOSED STORM DRAIN MANHOLE |  | EXISTING TELEPHONE LINE |

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
ENV	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FL	FINISHED GROUND	SD	STORM DRAIN
GV	FLOW LINE	SL	SECTION LINE
GL	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 005006

VERTICAL: 1" = 5'

BENCHMARK

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:

THE EAST LINE OF THE NORTHEAST QUARTER OF SAID BEING MONUMENTED AT THE NORTHEAST CORNER SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 230 THE EAST QUARTER CORNER OF SAID SECTION 9 BY ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED SOUTH 00°15'06" EAST, 2648.70 FEET.



UNCC
UTILITY NOTIFICATION
CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

33 E. Dry Creek Rd.
Suite 240
Glenwood, CO 80112
Tel: (720) 482-9526
Fax: (720) 482-9546



CVL
CONSULTANTS

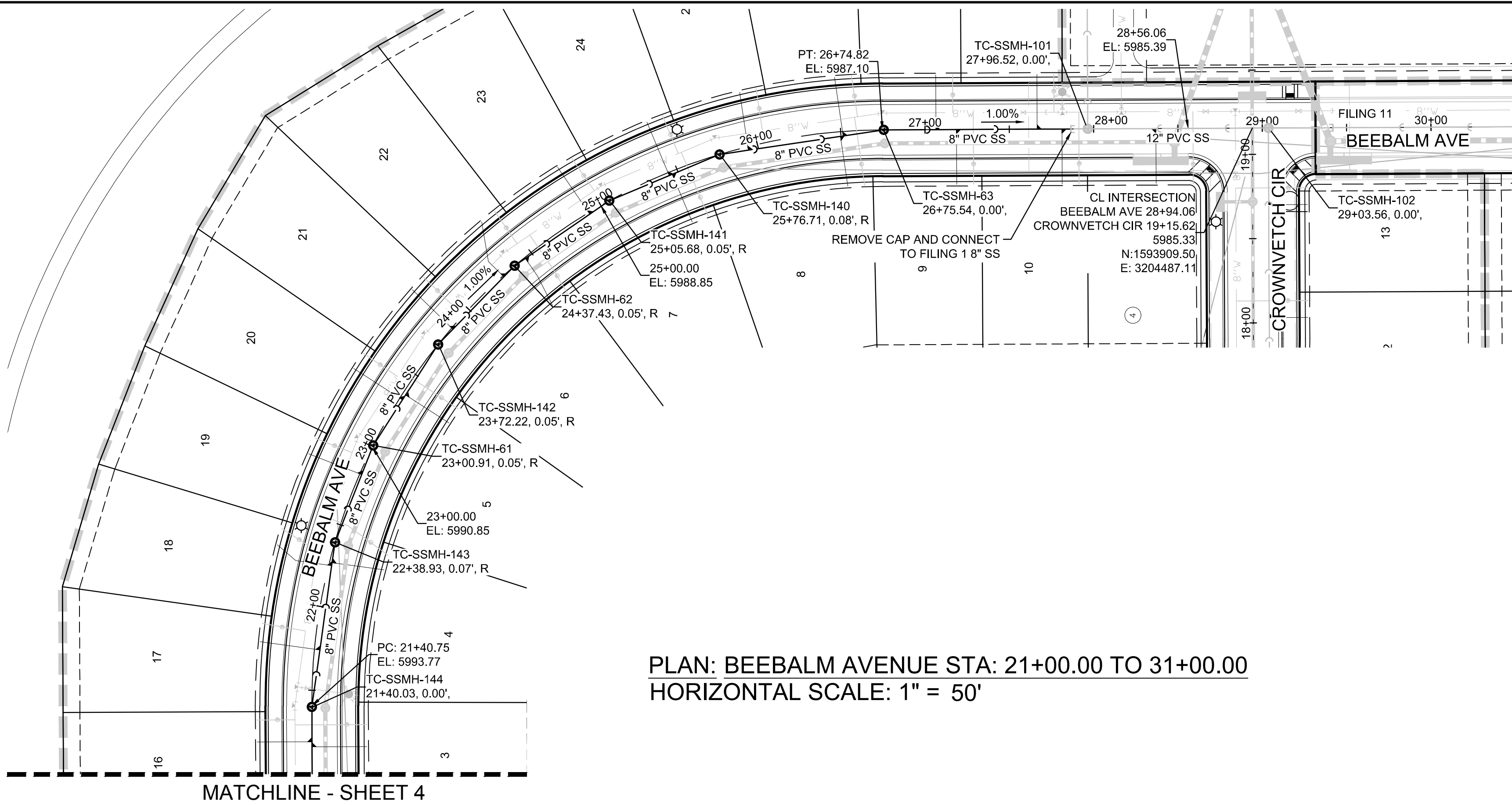
E5X MANAGEMENT
7353 South Alton Way
CENTENNIAL CO 80112

TRAILS AT CROWFOOT
FILE # 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BEEBALM AVENUE

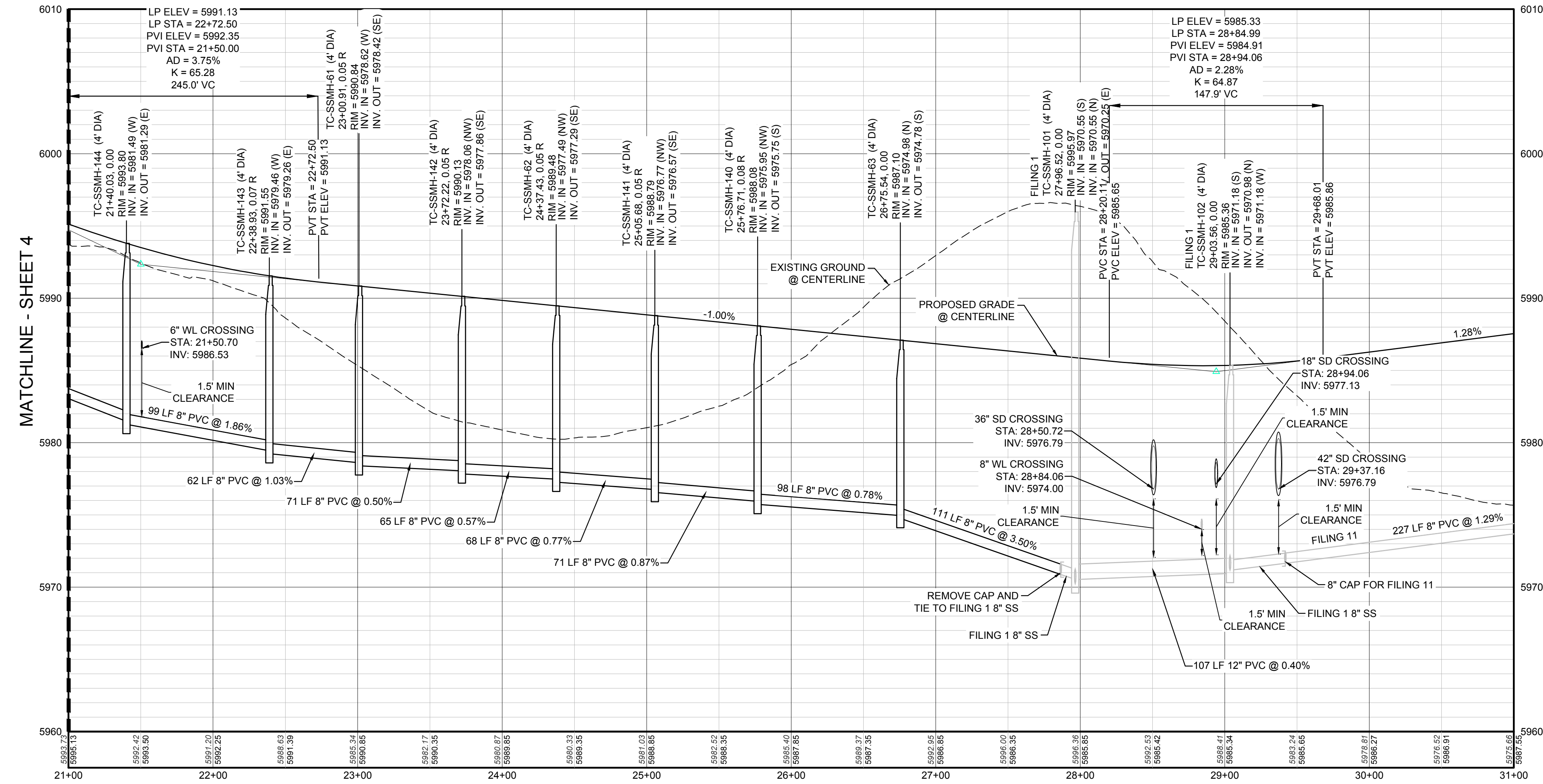
SCALE:	AS SHOWN
FILE NO:	8130283701

RAWN BY:	JLR
CHECKED BY:	JJJ
DATE:	

4



PLAN: BEEBALM AVENUE STA: 21+00.00 TO 31+00.00
HORIZONTAL SCALE: 1" = 50'



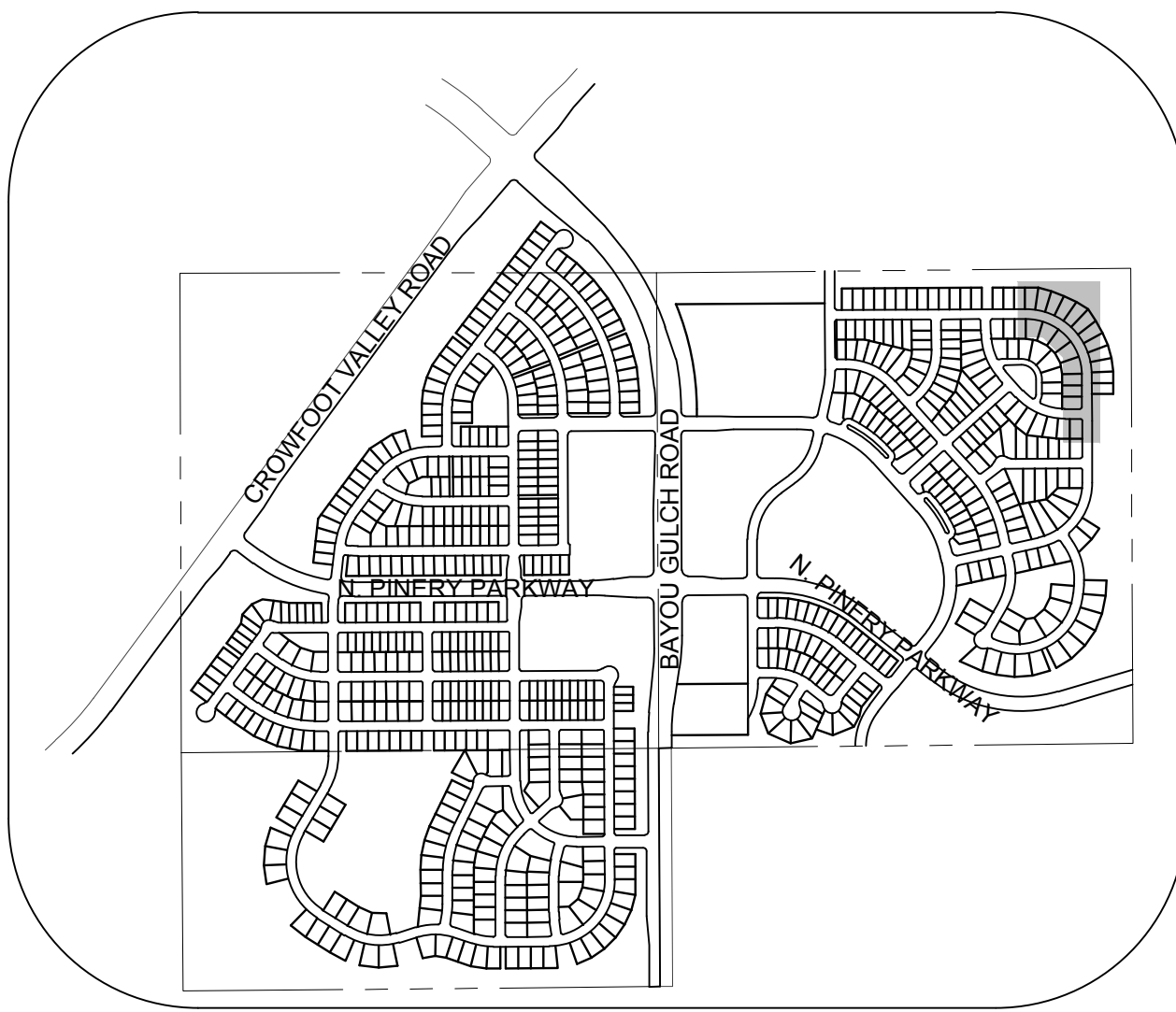
PROFILE: BEEBALM AVE STA: 21+00.00 TO 31+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.
LEGEND

- | | | | |
|-------|---------------------------------------|------|-------------------------------------|
| 2 | BLOCK NUMBER | △ | PROPOSED RANGE POINT |
| A | LOT TYPE | --- | CENTERLINE |
| 6 | LOT NUMBER | --- | RIGHT-OF-WAY |
| ⊠ | PROPOSED BUTTERFLY VALVE | --- | PROPERTY LINE |
| ⊠ | PROPOSED CAP WITH END OF LINE BLOWOFF | --- | EDGE OF PAVEMENT |
| ⊠ | PROPOSED REDUCER | → | PROPOSED DIRECTION OF FLOW |
| ⊠ | PROPOSED VALVE | 1.0% | PROPOSED SLOPE & DIRECTION |
| ⊠ | PROPOSED FIRE HYDRANT | 5615 | EXISTING 5' CONTOUR |
| ⊠ | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR |
| ⊠ | PROPOSED FLARED END SECTION | 5620 | PROPOSED 5' CONTOUR |
| ⊠ | PROPOSED LOW POINT BLOW-OFF | 5607 | PROPOSED 1' CONTOUR |
| ⊠ | PROPOSED AIR VALVE | --- | PROPOSED STORM DRAIN |
| ⊠ | EXISTING BLOW OFF VALVE | --- | PROPOSED SEWER LINE WITH MANHOLE |
| ⊠ | EXISTING VALVE | --- | PROPOSED SEWER LATERAL |
| ⊠ | EXISTING FIRE HYDRANT | --- | PROPOSED WATER LINE |
| ⊠ | PROPOSED LIGHT POLE | --- | PROPOSED WATER LATERAL W/ METER |
| ⊠ | PROPOSED SIDEWALK | --- | EXISTING 60" RAW WATER LINE |
| ⊠ | PROPOSED SIDEWALK RAMP | --- | SECTION LINE |
| 10.00 | EXISTING ELEVATION | --- | FILING BOUNDARY |
| 10.00 | PROPOSED DESIGN ELEVATION | --- | EXISTING FIBER OPTIC LINE |
| ⊠ | PROPOSED STORM DRAIN INLET | --- | EXISTING OVERHEAD HIGH VOLTAGE LINE |
| ⊠ | PROPOSED STORM DRAIN MANHOLE | --- | EXISTING TELEPHONE LINE |

ABBREVIATIONS

- | | | | |
|-----|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PL | PROPERTY LINE |
| BVP | BEGIN VERTICAL PROFILE | PVC | POLYVINYL CHLORIDE |
| CRR | CURB RETURN RADIUS | PVI | PT. OF VERTICAL INTERSECTION |
| EL | ELEVATION | PVT | POINT OF VERTICAL TANGENT |
| EP | EDGE OF PAVEMENT | RCBC | REINFORCED CONCRETE BOX CULVERT |
| EVP | END VERTICAL PROFILE | RCP | REINFORCED CONCRETE PIPE |
| FG | FINISHED GROUND | ROW | RIGHT OF WAY |
| FL | FLOW LINE | SD | STORM DRAIN |
| GV | GATE VALVE | SL | SECTION LINE |
| HA | HYDRANT ASSEMBLY | SS | SANITARY SEWER |
| HCR | HANDICAP CURB RAMP | STA | STATION |
| HP | HIGH POINT | T.O.P. | TOP OF PIPE |
| INV | INVERT | UE | UTILITY EASEMENT |
| K | CURVATURE COEFFICIENT | VC | VERTICAL CURVE |
| LF | LINEAR FEET | WL | WATER LINE |
| MH | MANHOLE | WSE | WATER SURFACE ELEVATION |

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9546



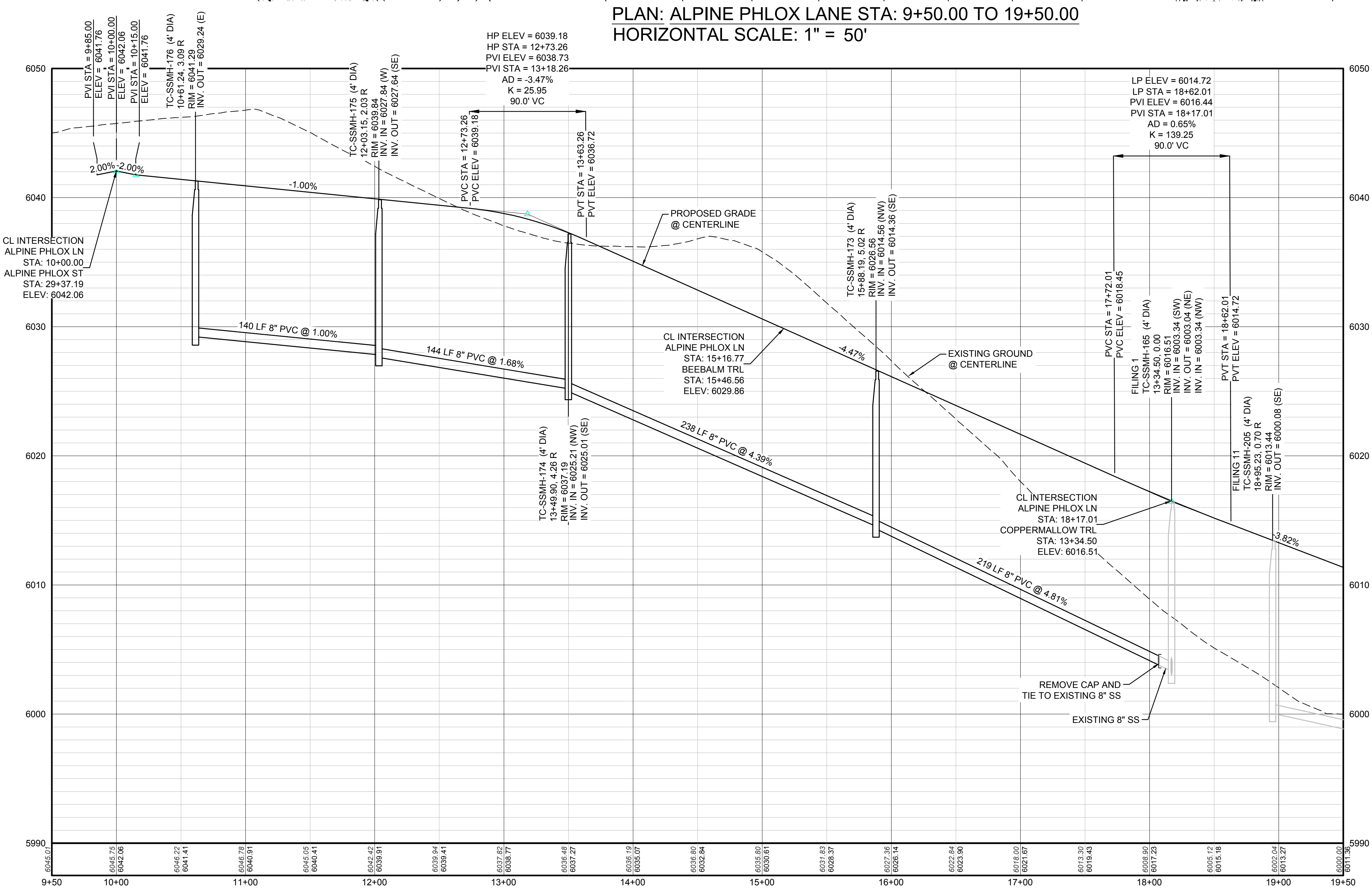
ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
BEEBALM AVENUE

SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: JLR
CHECKED BY: JJJ
DATE: SEPTEMBER 2017

SHEET NUMBER
5

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987



	BLOCK NUMBER		PROPOSED RANGE POINT
	LOT TYPE	--- --	CENTERLINE
	LOT NUMBER	=====	RIGHT-OF-WAY
	PROPOSED BUTTERFLY VALVE	=====	PROPERTY LINE
	PROPOSED CAP WITH END OF LINE BLOWOFF	=====	EDGE OF PAVEMENT
	PROPOSED REDUCER		PROPOSED DIRECTION OF FLOW
	PROPOSED VALVE		PROPOSED SLOPE & DIRECTION
	PROPOSED FIRE HYDRANT	----- 5615 -----	EXISTING 5' CONTOUR
	PROPOSED W/L FITTING WITH THRUST BLOCK	----- 5616 -----	EXISTING 1' CONTOUR
	PROPOSED FLARED END SECTION	----- 5620 -----	PROPOSED 5' CONTOUR
	PROPOSED LOW POINT BLOW-OFF	----- 5607 -----	PROPOSED 1' CONTOUR
	PROPOSED AIR VALVE		PROPOSED STORM DRAIN
	EXISTING BLOW OFF VALVE		PROPOSED SEWER LINE WITH MANHOLE
	EXISTING VALVE		PROPOSED SEWER LATERAL
	EXISTING FIRE HYDRANT		PROPOSED WATER LINE
	PROPOSED LIGHT POLE		PROPOSED WATER LATERAL W/ METER
=====	PROPOSED SIDEWALK	----- RW -----	EXISTING 60" RAW WATER LINE
	PROPOSED SIDEWALK RAMP	--- -- --	SECTION LINE
10.00	EXISTING ELEVATION		FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	----- FO -----	EXISTING FIBER OPTIC LINE
	PROPOSED STORM DRAIN INLET	----- HV -----	EXISTING OVERHEAD HIGH VOLTAGE LINE
	PROPOSED STORM DRAIN MANHOLE	----- TEL -----	EXISTING TELEPHONE LINE

ABBREVIATIONS		
AD	ANGLE DIFFERENCE	N.T.S. NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBO REINFORCED CONCRETE BOX
EVC	END VERTICAL CURVE	CULVERT
EVF	END VERTICAL PROFILE	RCP REINFORCED CONCRETE PIPE
FG	FINISHED GROUND	ROW RIGHT OF WAY
FL	FLOW LINE	SD STORM DRAIN
GV	GATE VALVE	SL SECTION LINE
HA	HYDRANT ASSEMBLY	SS SANITARY SEWER
HCR	HANDICAP CURB RAMP	STA STATION
HP	HIGH POINT	T.O.P. TOP OF PIPE
INV	INVERT	UE UTILITY EASEMENT
K	CURVATURE COEFFICIENT	VC VERTICAL CURVE
LF	LINEAR FEET	WL WATER LINE
MH	MANHOLE	WSE WATER SURFACE ELEVATION

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 005006

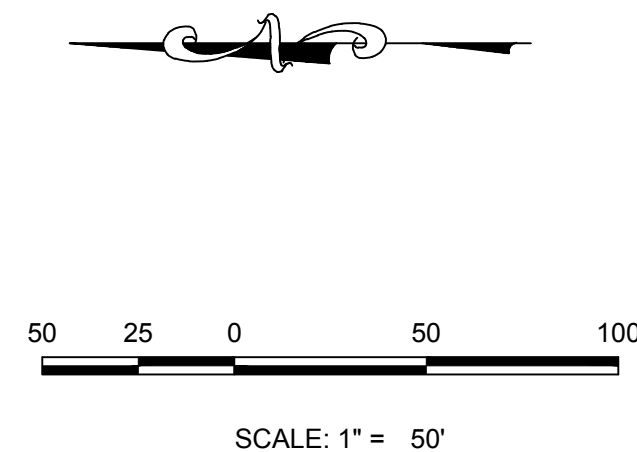
PROFILE: ALPINE PHLOX LN STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR
SOUTH 00°15'06" EAST, 2648.70 FEET.

 **CALL 811**
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

	EXS MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE ALPINE PHLOX LANE		SCALE: AS SHOWN	SHEET NUMBER 6
	DRAWN BY: JLR	CHECKED BY: JLR	FILE NO: 8130283701			
	DATE: SEPTEMBER 2017					
	No. Revisions		Date			
	Init.		Appr.			
10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546						



ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

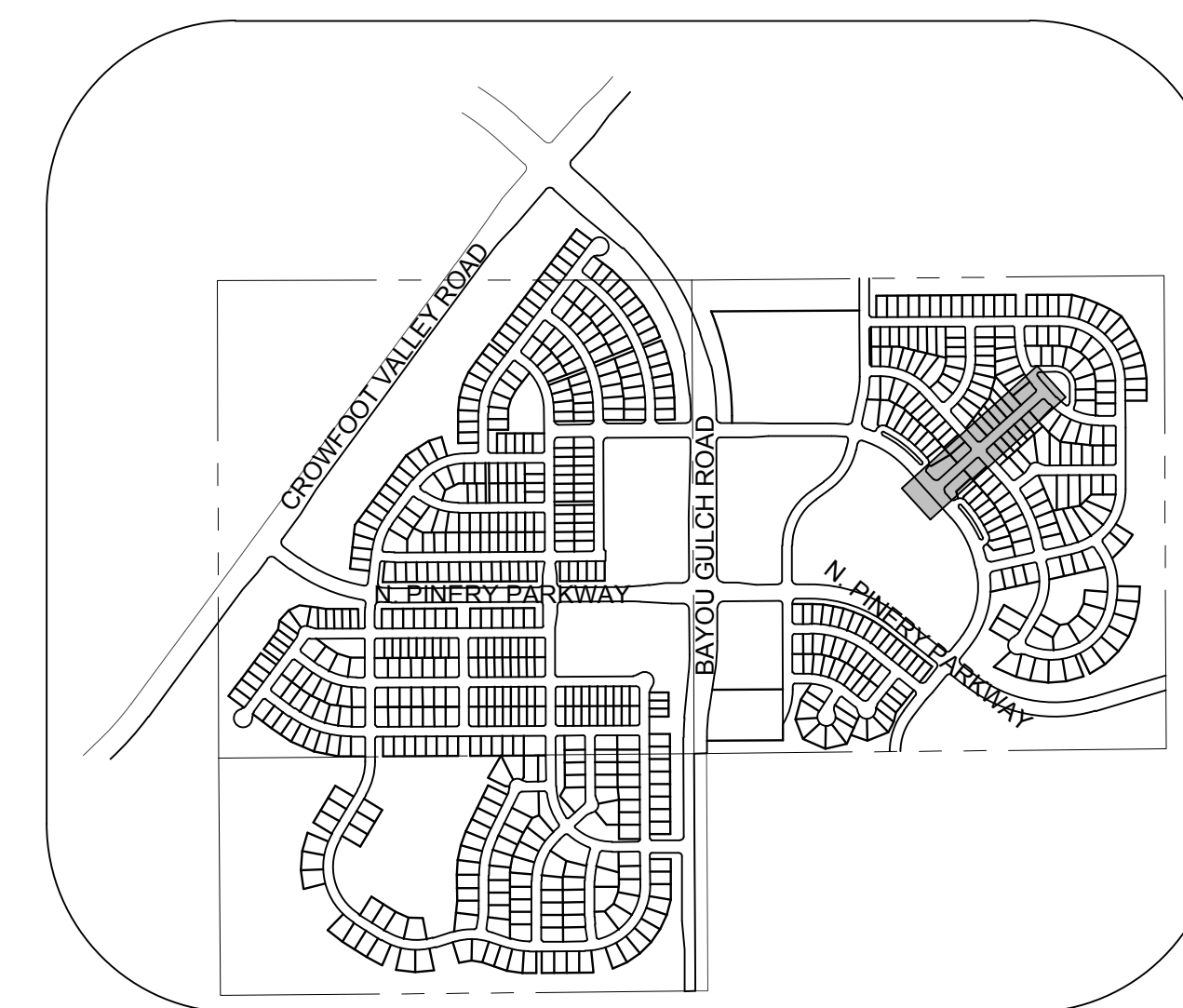
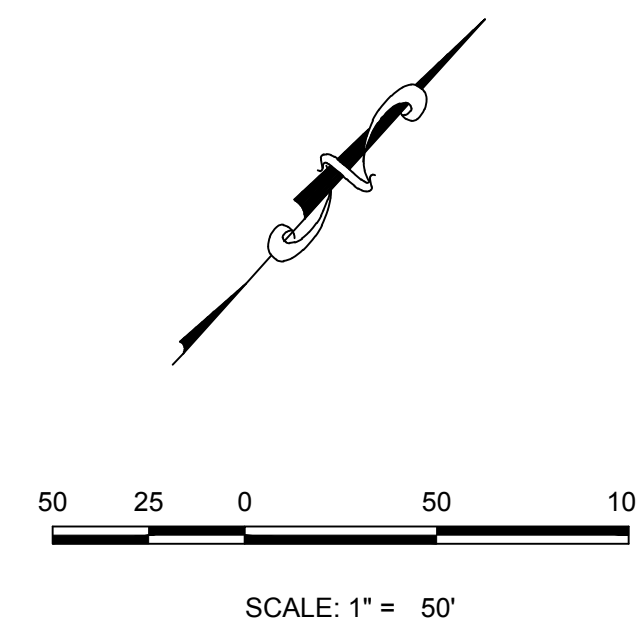
DRAWN BY: JLR	SCALE: AS SHOWN	FILE NO: 8130283701
	CHECKED BY: JJJ	
DATE: SEPTEMBER 2017		

7

 **CALL 811**
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

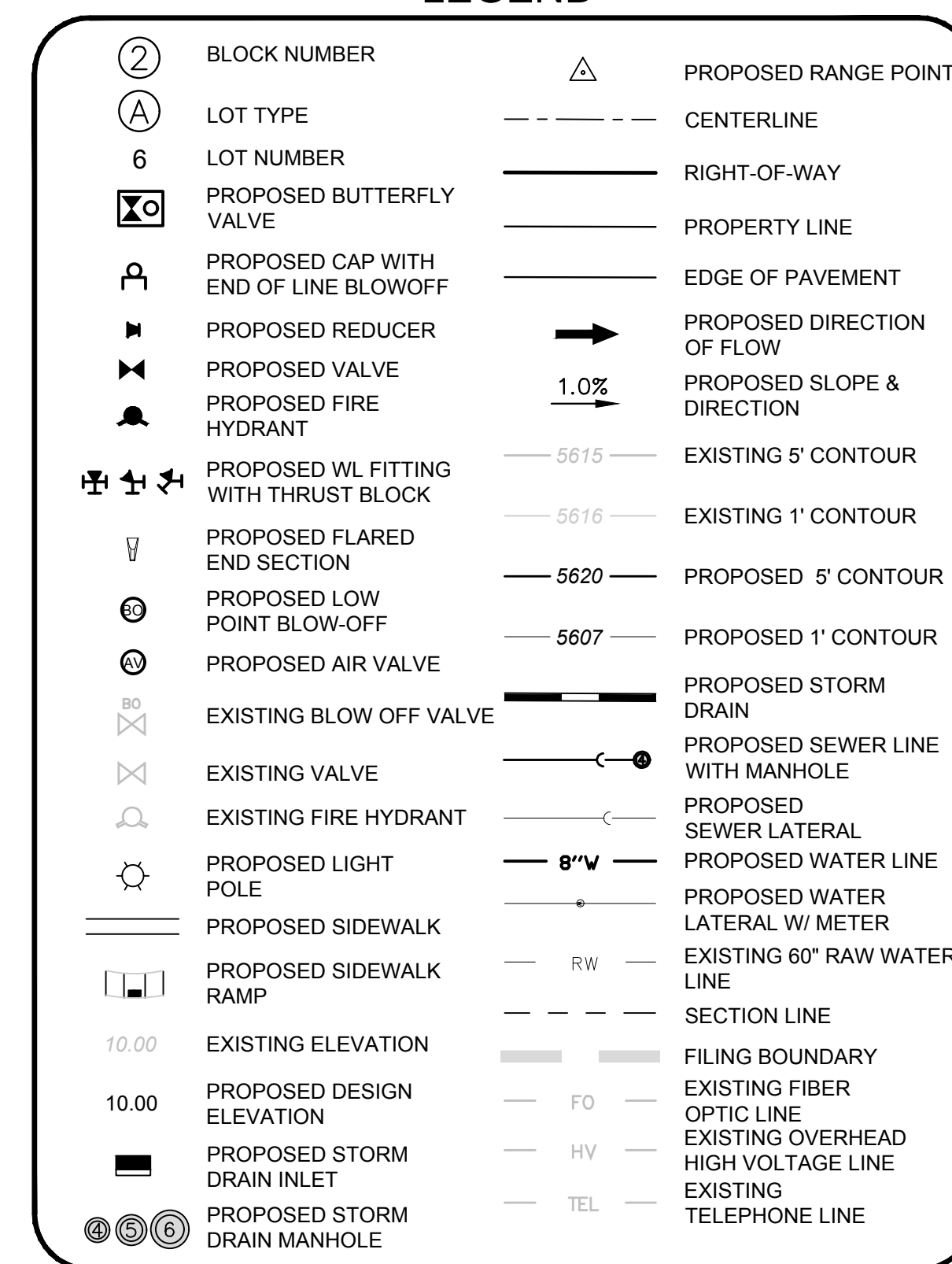
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

BRIAN P. WILSON
COLORADO P.E. 0050067



KEYMAP
N.T.S.
LEGEND

NOTE:
1. SANITARY MAIN INSTALLED WITH FILING 1,
SANITARY SERVICES INSTALLED WITH FILING 10



AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
END	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

PROFILE: COPPERMALLOW TRL STA: 9+50.00 TO 18+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A
3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST
QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST
OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED
ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR
SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



SHEET NUMBER 8	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS SANITARY SEWER PLAN AND PROFILE COPPERMALLOW TRAIL		SCALE: AS SHOWN					
	DRAWN BY:	JLR						
	CHECKED BY:	JLL						
	DATE:	SEPTEMBER 2017						
		8130283701						
 E5X MANAGEMENT 7353 South Allon Way CENTENNIAL, CO 80112						10333 E. Dry Creek Rd. Suite 240 Englewood, CO 80112 Tel: (720) 482-9526 Fax: (720) 482-9546		
			No.	Revisions	Date	Init.	Appr.	

N:\PROJECTS\BENCH MARK\ENGINEERING\DRAWING SETS\CD\SF\09 PARKER WATER AND SANITATION\SANITARY PLAN AND PROFILE\CROWN VETCH CIRCLE.DWG, CDDVA, 8/23/2017 3:16 PM



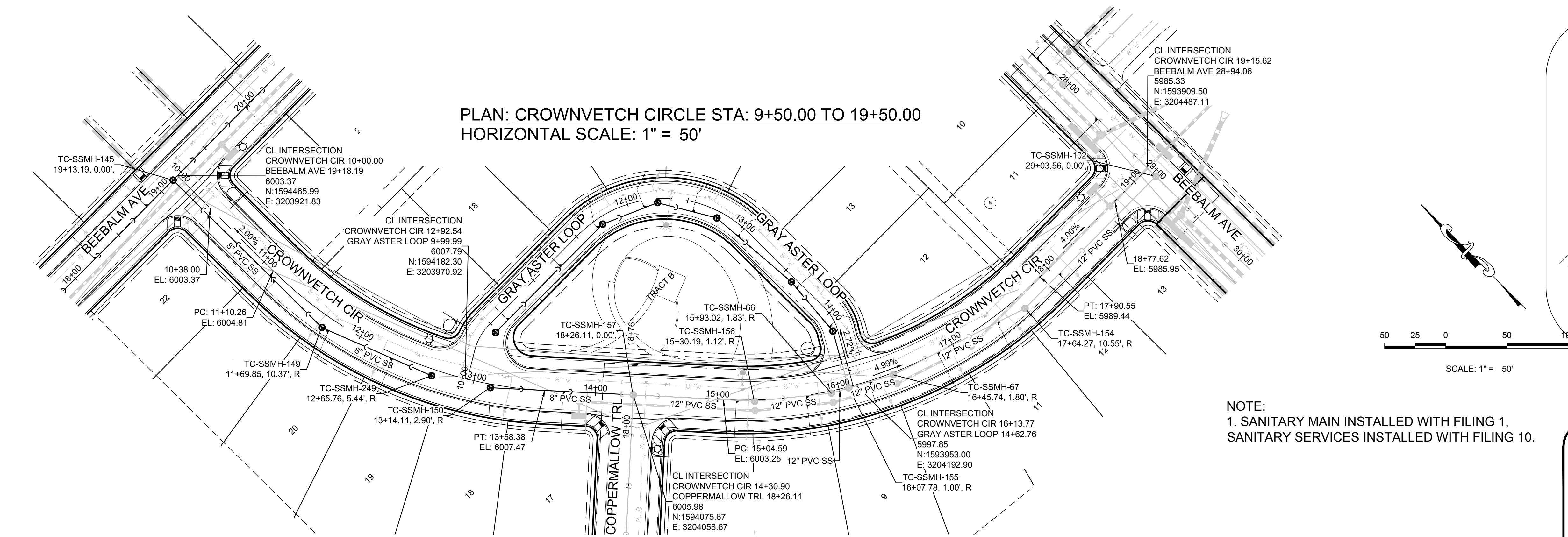
UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811

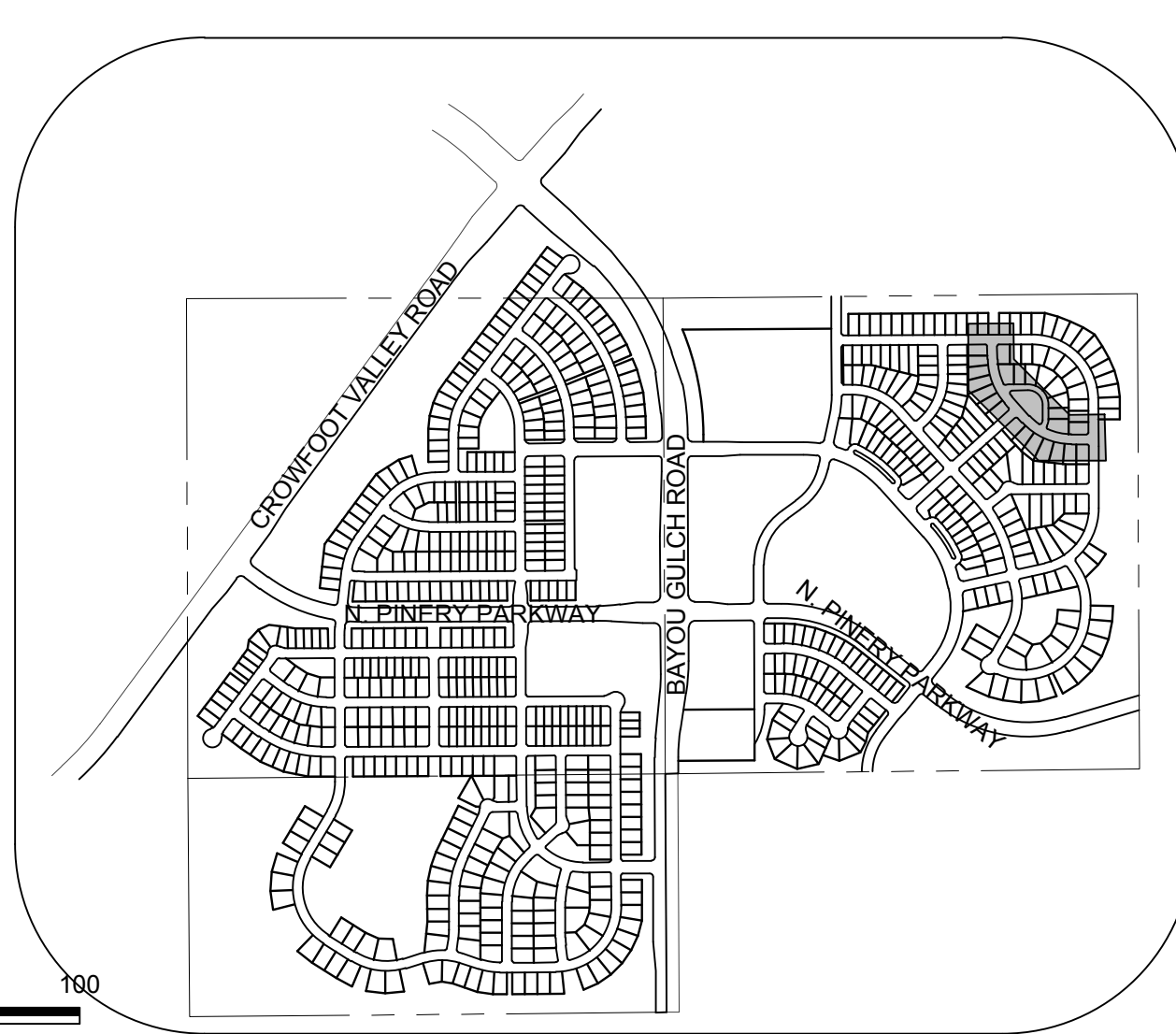
TWO WORKING DAYS

BEFORE YOU DIG

1-800-922-1987



NOTE:
1. SANITARY MAIN INSTALLED WITH FILING 1,
SANITARY SERVICES INSTALLED WITH FILING 10.

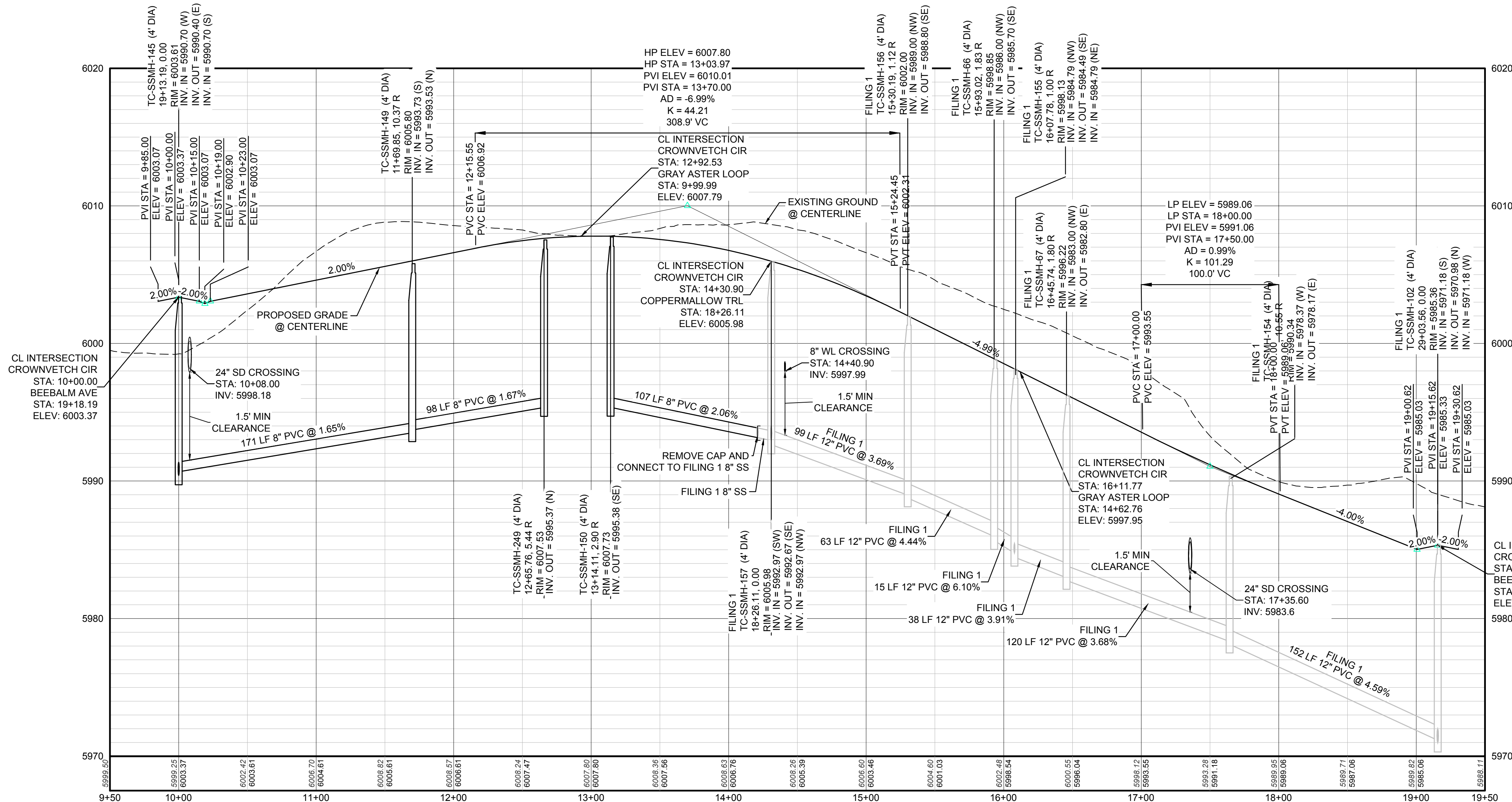


KEYMAP
N.T.S.
LEGEND

- | | | | |
|-------|---------------------------------------|------|-------------------------------------|
| 2 | BLOCK NUMBER | △ | PROPOSED RANGE POINT |
| A | LOT TYPE | --- | CENTERLINE |
| 6 | LOT NUMBER | --- | RIGHT-OF-WAY |
| ⊠ | PROPOSED BUTTERFLY VALVE | --- | PROPERTY LINE |
| ⊠ | PROPOSED CAP WITH END OF LINE BLOWOFF | --- | EDGE OF PAVEMENT |
| ⊠ | PROPOSED REDUCER | → | PROPOSED DIRECTION OF FLOW |
| ⊠ | PROPOSED VALVE | 1.0% | PROPOSED SLOPE & DIRECTION |
| ⊠ | PROPOSED FIRE HYDRANT | --- | EXISTING 5' CONTOUR |
| ⊠ | PROPOSED WL FITTING WITH THRUST BLOCK | --- | EXISTING 1' CONTOUR |
| ⊠ | PROPOSED FLARED END SECTION | --- | PROPOSED 5' CONTOUR |
| ⊠ | PROPOSED LOW POINT BLOW-OFF | --- | PROPOSED 1' CONTOUR |
| ⊠ | PROPOSED AIR VALVE | --- | PROPOSED STORM DRAIN |
| ⊠ | EXISTING BLOW OFF VALVE | --- | PROPOSED SEWER LINE WITH MANHOLE |
| ⊠ | EXISTING VALVE | --- | PROPOSED SEWER LATERAL |
| ⊠ | EXISTING FIRE HYDRANT | --- | PROPOSED WATER LINE |
| ⊠ | PROPOSED LIGHT POLE | --- | PROPOSED WATER LATERAL W/ METER |
| ⊠ | PROPOSED SIDEWALK | --- | EXISTING 60" RAW WATER LINE |
| ⊠ | PROPOSED SIDEWALK RAMP | --- | SECTION LINE |
| 10.00 | EXISTING ELEVATION | --- | FILING BOUNDARY |
| 10.00 | PROPOSED DESIGN ELEVATION | --- | EXISTING FIBER OPTIC LINE |
| ⊠ | PROPOSED STORM DRAIN INLET | --- | EXISTING OVERHEAD HIGH VOLTAGE LINE |
| ⊠ | PROPOSED STORM DRAIN MANHOLE | --- | EXISTING TELEPHONE LINE |

ABBREVIATIONS

- | | | | |
|-----|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PL | PROPERTY LINE |
| BVP | BEGIN VERTICAL PROFILE | PVC | POLYVINYL CHLORIDE |
| CRR | CURB RETURN RADIUS | PVI | PT. OF VERTICAL INTERSECTION |
| EL | ELEVATION | PVT | POINT OF VERTICAL TANGENT |
| EP | EDGE OF PAVEMENT | RCBC | REINFORCED CONCRETE BOX CULVERT |
| EVC | END VERTICAL CURVE | RCP | REINFORCED CONCRETE PIPE |
| EVP | END VERTICAL PROFILE | ROW | RIGHT OF WAY |
| FG | FINISHED GROUND | SD | STORM DRAIN |
| FL | FLOW LINE | SL | SECTION LINE |
| GV | GATE VALVE | SS | SANITARY SEWER |
| HA | HYDRANT ASSEMBLY | STA | STATION |
| HCR | HANDICAP CURB RAMP | T.O.P. | TOP OF PIPE |
| HP | HIGH POINT | UE | UTILITY EASEMENT |
| INV | INVERT | VC | VERTICAL CURVE |
| K | CURVATURE COEFFICIENT | WL | WATER LINE |
| LF | LINEAR FEET | WSE | WATER SURFACE ELEVATION |
| MH | MANHOLE | | |



PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9548



ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

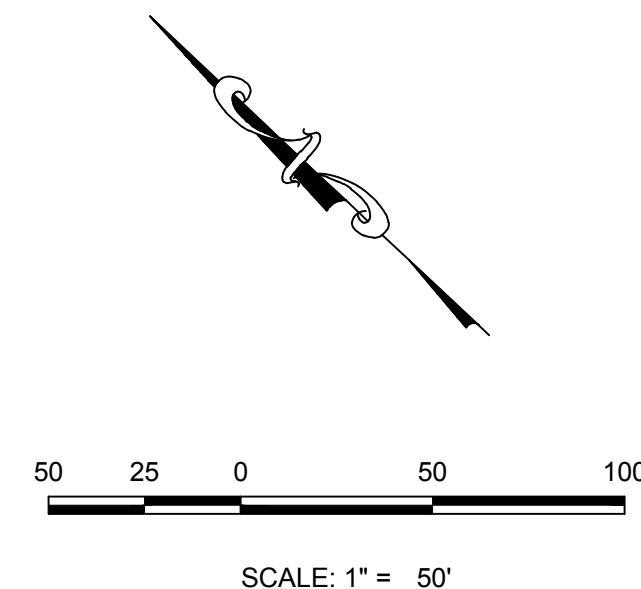
TRAITS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
CROWN VETCH CIRCLE

SCALE:
AS SHOWN
FILE NO:
8130283701

DRAWN BY: JLR
CHECKED BY: JJJ
DATE: SEPTEMBER 2017

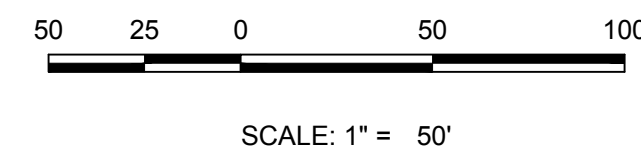
SHEET NUMBER
9

Revisions
No. Date Init. Appr. Date



50 25 0 50 100

SCALE: 1" = 50'



50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

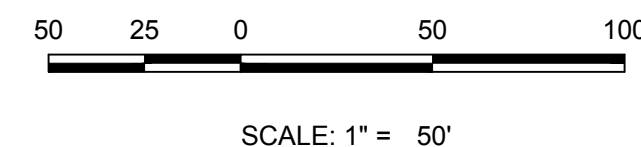
SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'



50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

50 25 0 50 100

SCALE: 1" = 50'

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\BANCROFT\WATER AND SANITATION\SANITARY PLAN AND PROFILE\SCARLET SAGE AVENUE.dwg, 9/23/2017 3:22 PM



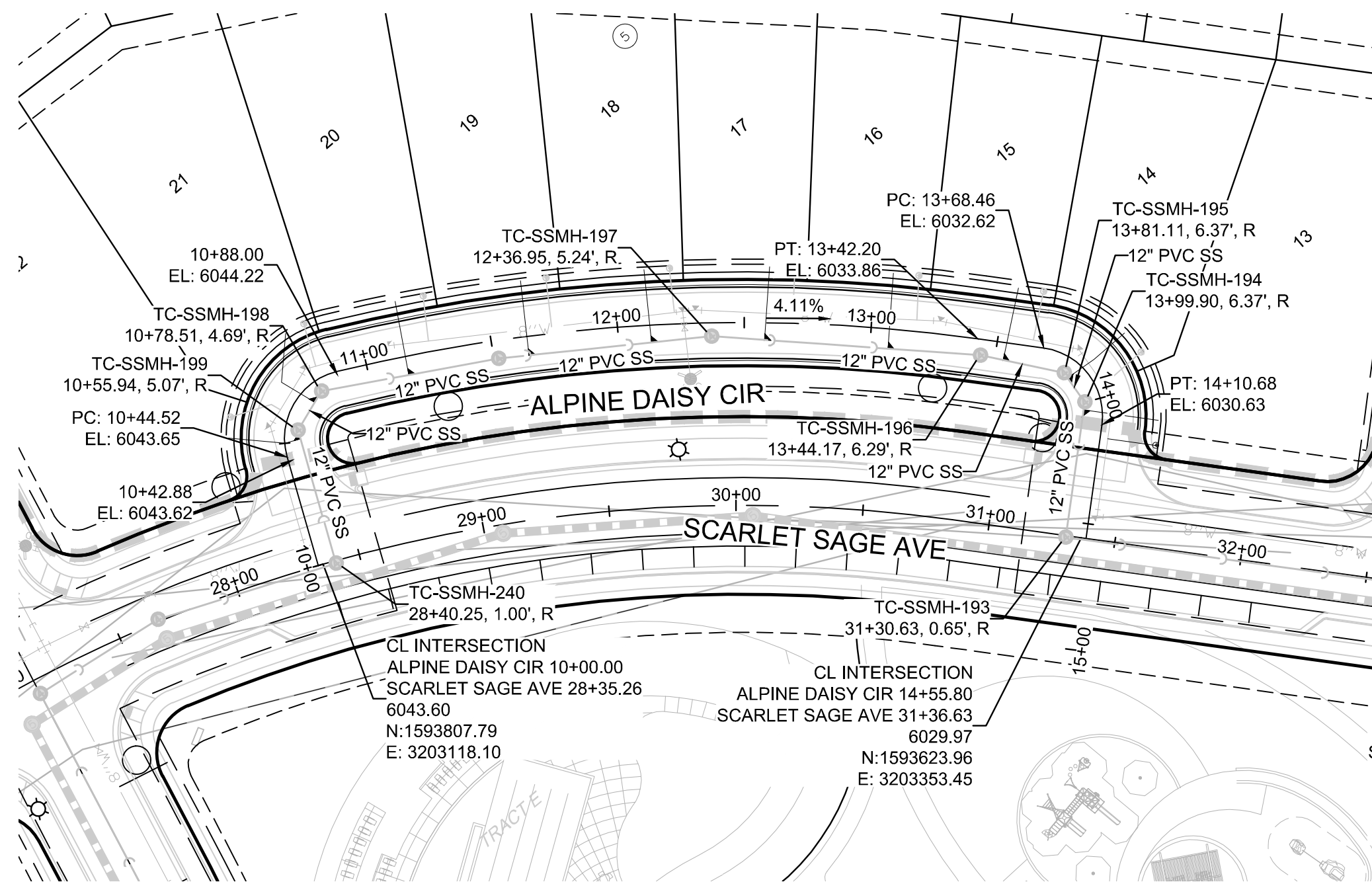
CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

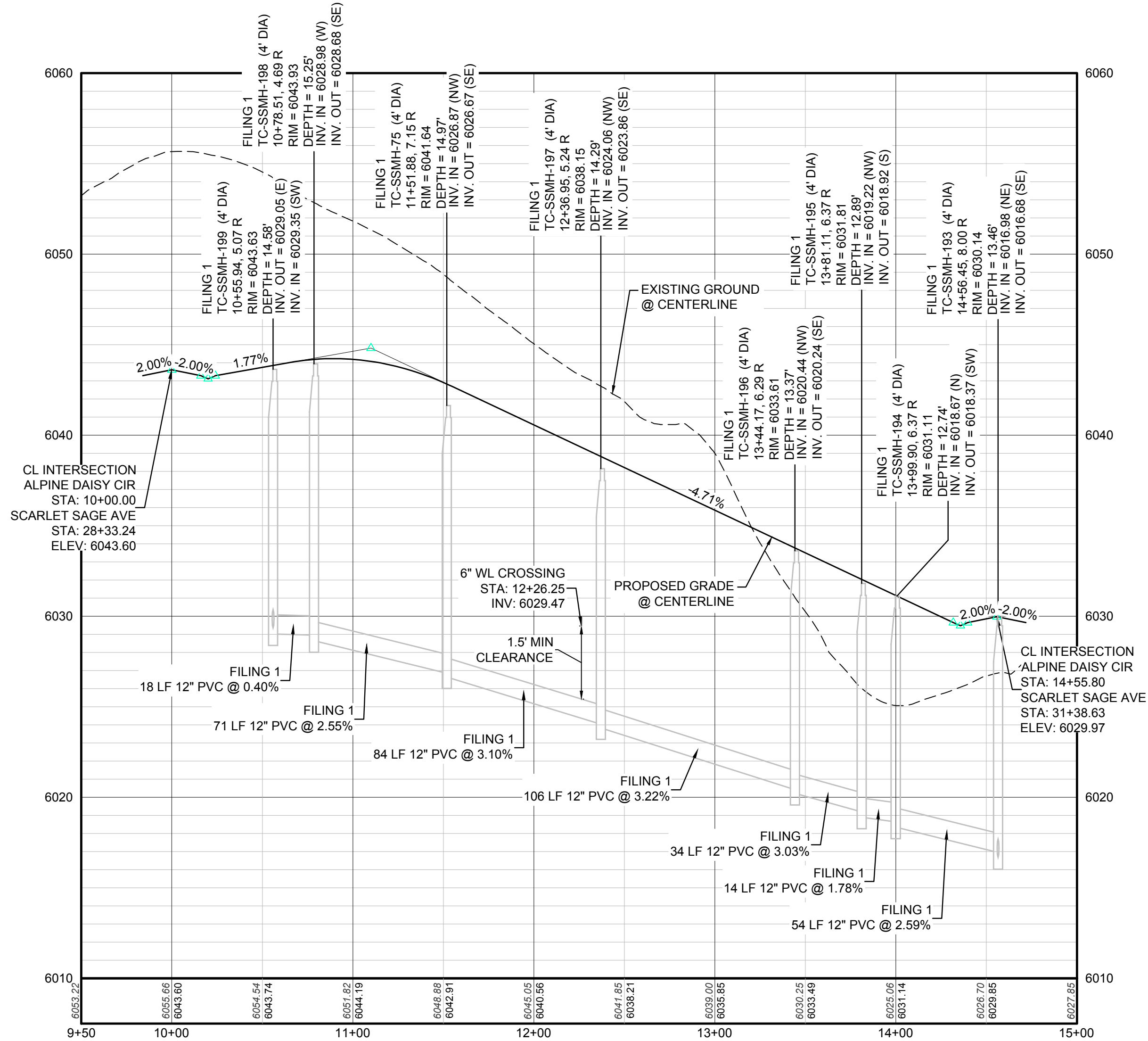
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

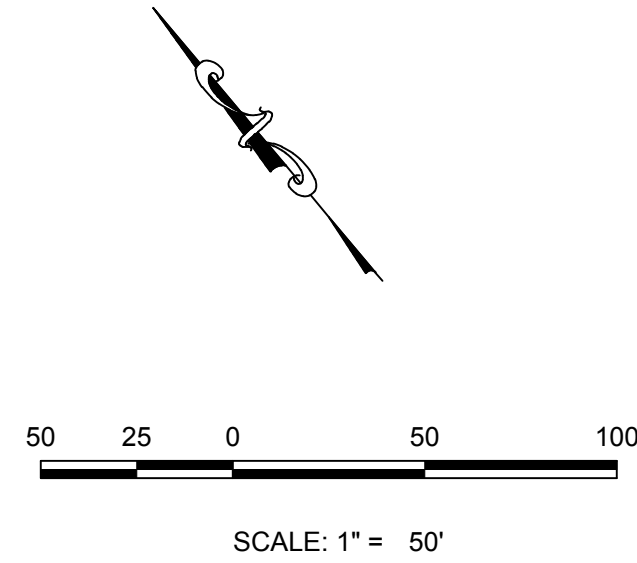
BRIAN P. WILSON
COLORADO P.E. 0050067



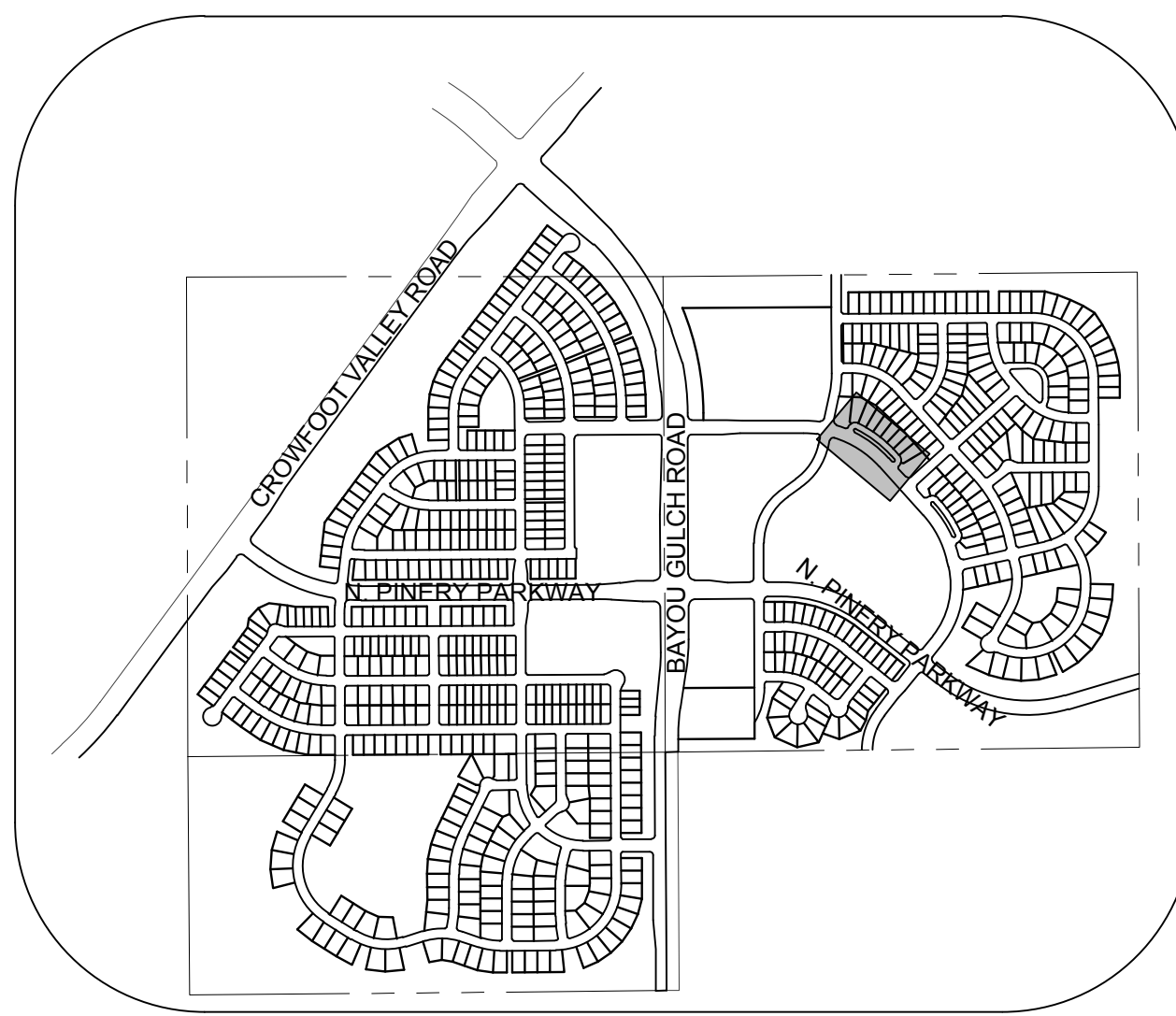
PLAN: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL SCALE: 1" = 50'



PROFILE: ALPINE DAISY CIR STA: 9+50.00 TO 15+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



NOTE:
1. SANITARY MAIN INSTALLED WITH FILING 1, SANITARY SERVICES TO BE INSTALLED WITH FILING 10



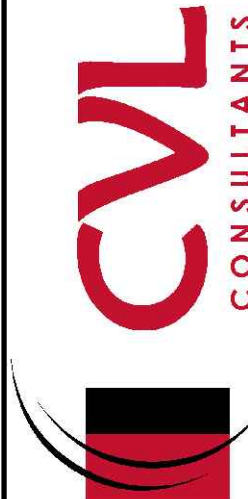
KEYMAP
N.T.S.
LEGEND

②	BLOCK NUMBER	△	PROPOSED RANGE POINT
Ⓐ	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
ⓧ	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
Ⓟ	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
ⓧ	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
ⓧ	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
ⓧ	PROPOSED FIRE HYDRANT	---	EXISTING 5' CONTOUR
ⓧ	PROPOSED WL FITTING WITH THRUST BLOCK	---	EXISTING 1' CONTOUR
ⓧ	PROPOSED FLARED END SECTION	---	PROPOSED 5' CONTOUR
ⓧ	PROPOSED LOW POINT BLOW-OFF	---	PROPOSED 1' CONTOUR
ⓧ	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
ⓧ	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
ⓧ	EXISTING VALVE	---	PROPOSED SEWER LATERAL
ⓧ	EXISTING FIRE HYDRANT	---	PROPOSED WATER LINE
ⓧ	PROPOSED LIGHT POLE	---	EXISTING 60" RAW WATER LINE
ⓧ	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
ⓧ	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
ⓧ	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

10333 E. Dry Creek Rd.
Suite 110
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9546



ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
SANITARY SEWER PLAN AND PROFILE
ALPINE DAISY CIRCLE

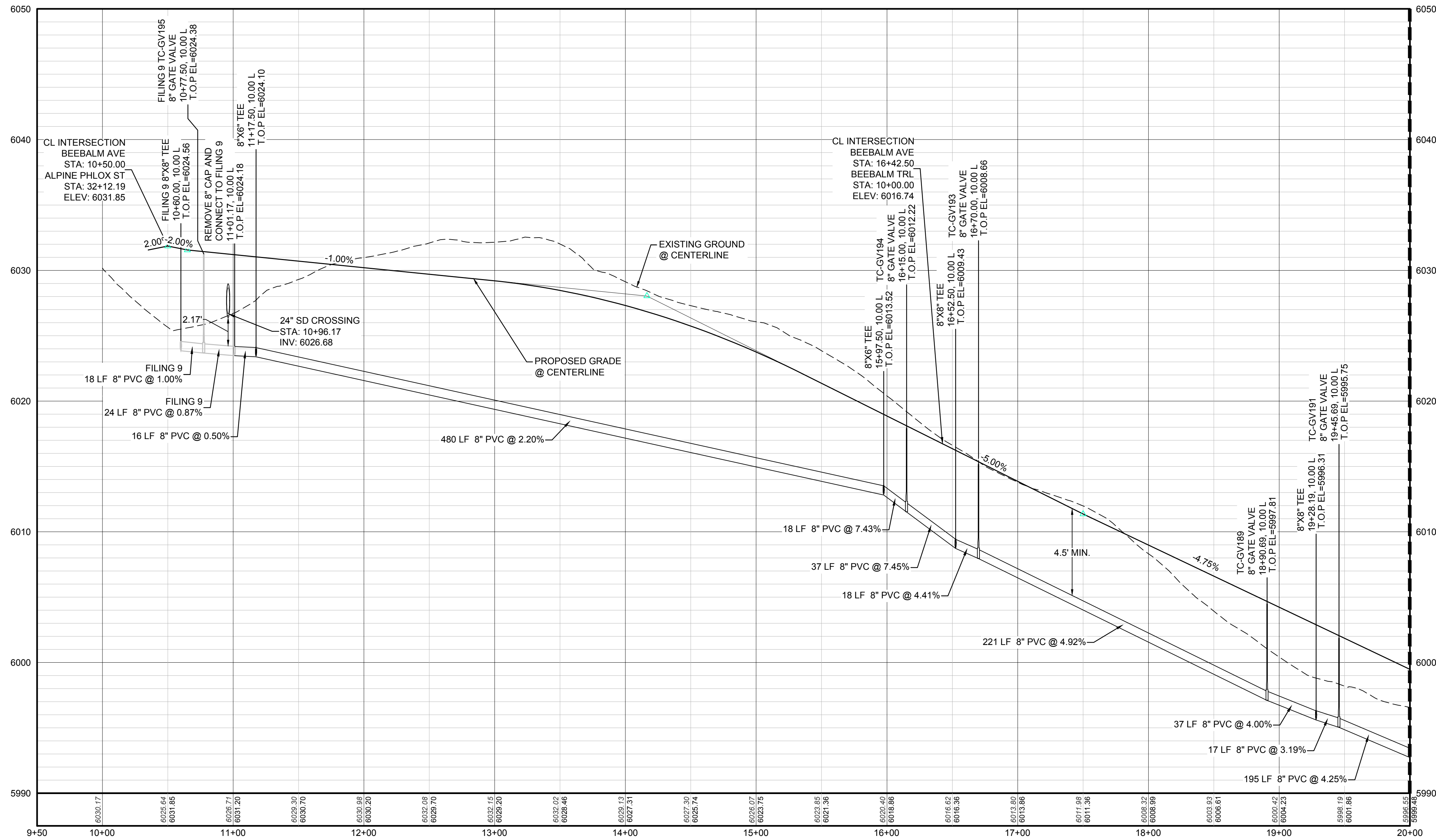
SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: KJD
CHECKED BY: JJJ
DATE: SEPTEMBER 2017

SHEET NUMBER
11

N:\PROJECTS\BEEBALM AVE STA 9+50.00 TO 20+00.00\BEEBALM AVE STA 9+50.00 TO 20+00.00.DWG, 8/23/2017 3:27 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987



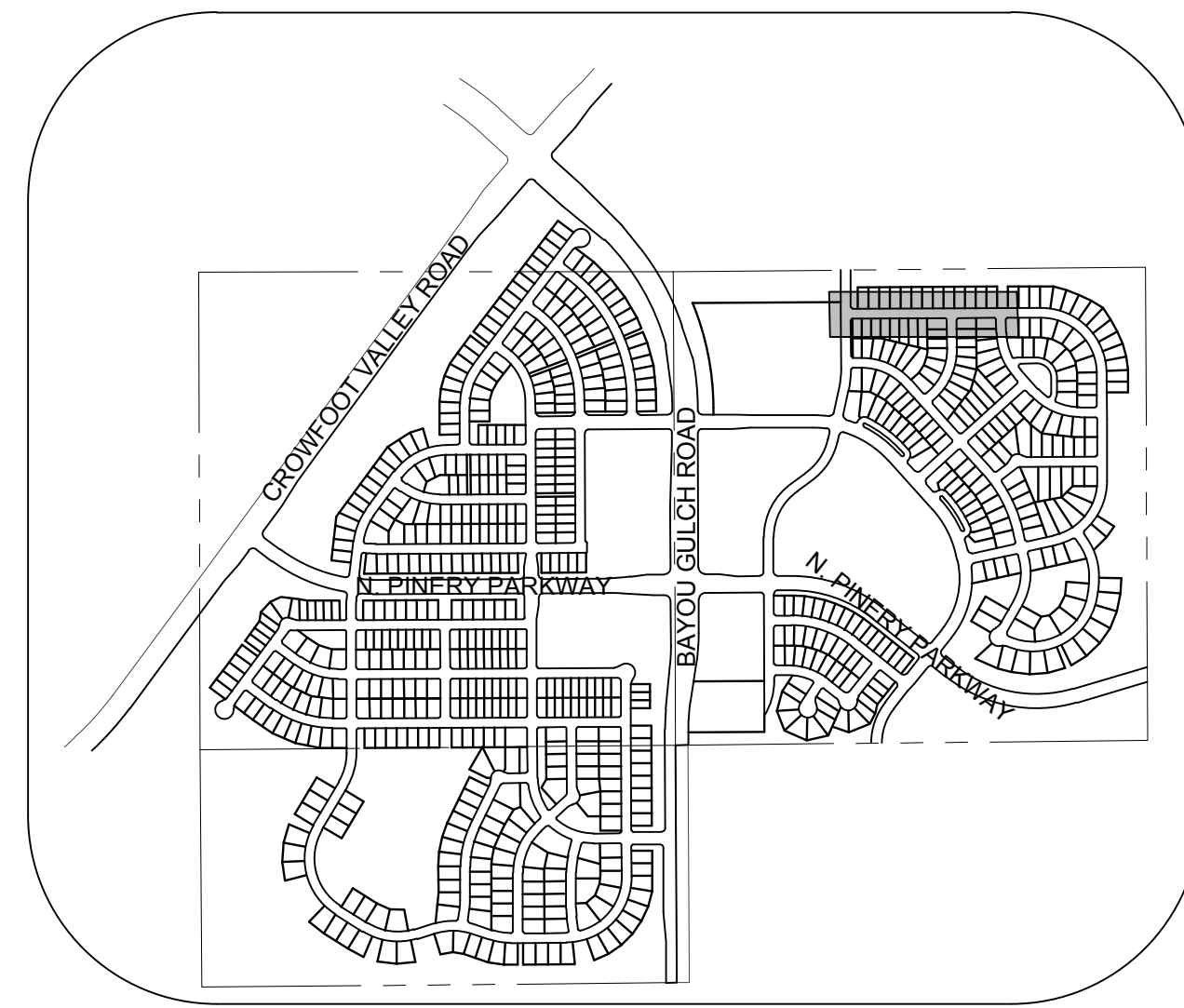
PROFILE: BEEBALM AVE STA: 9+50.00 TO 20+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



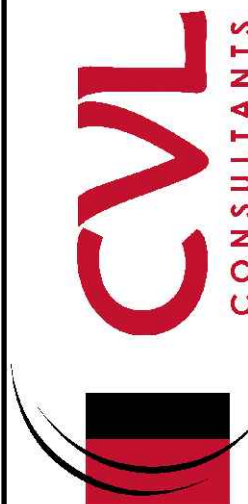
KEYMAP
N.T.S.
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊠	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊠	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊠	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊠	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊠	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊠	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊠	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊠	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊠	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊠	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊠	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊠	EXISTING FIRE HYDRANT	8" W	PROPOSED WATER LINE
⊠	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
⊠	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
⊠	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊠	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊠	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

10333 E. Dry Creek Rd.
Suite 110
Englewood, CO 80150
Tel: (720) 482-9526
Fax: (720) 482-9548



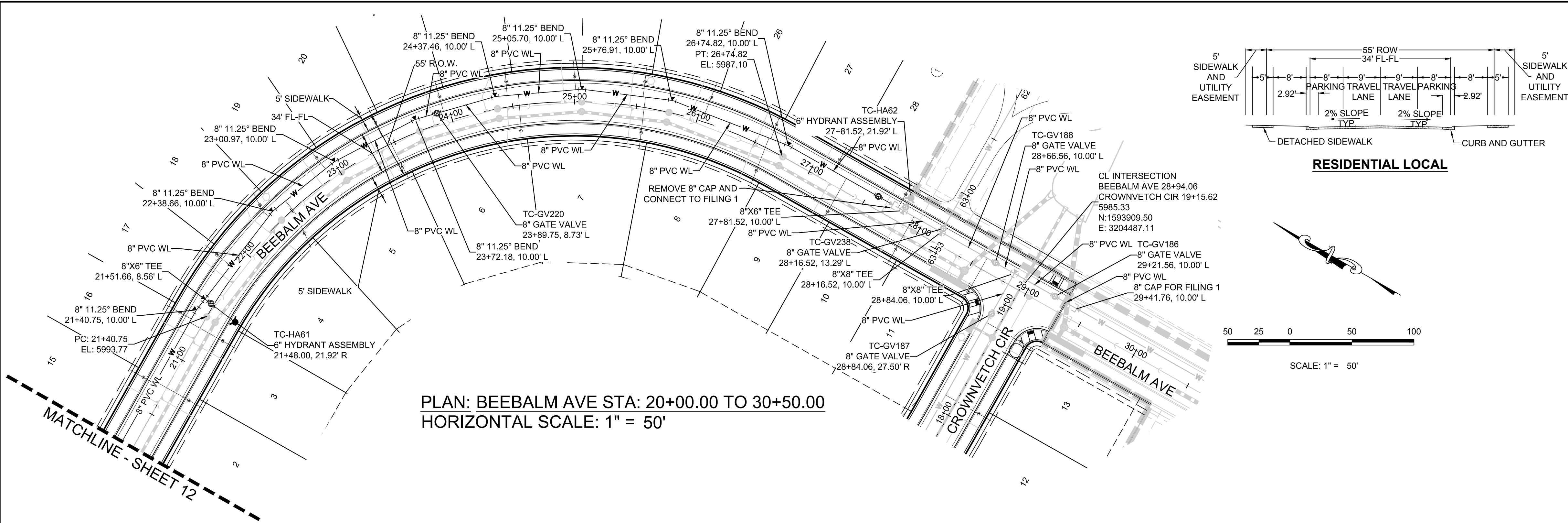
ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN AND PROFILE
BEEBALM AVENUE

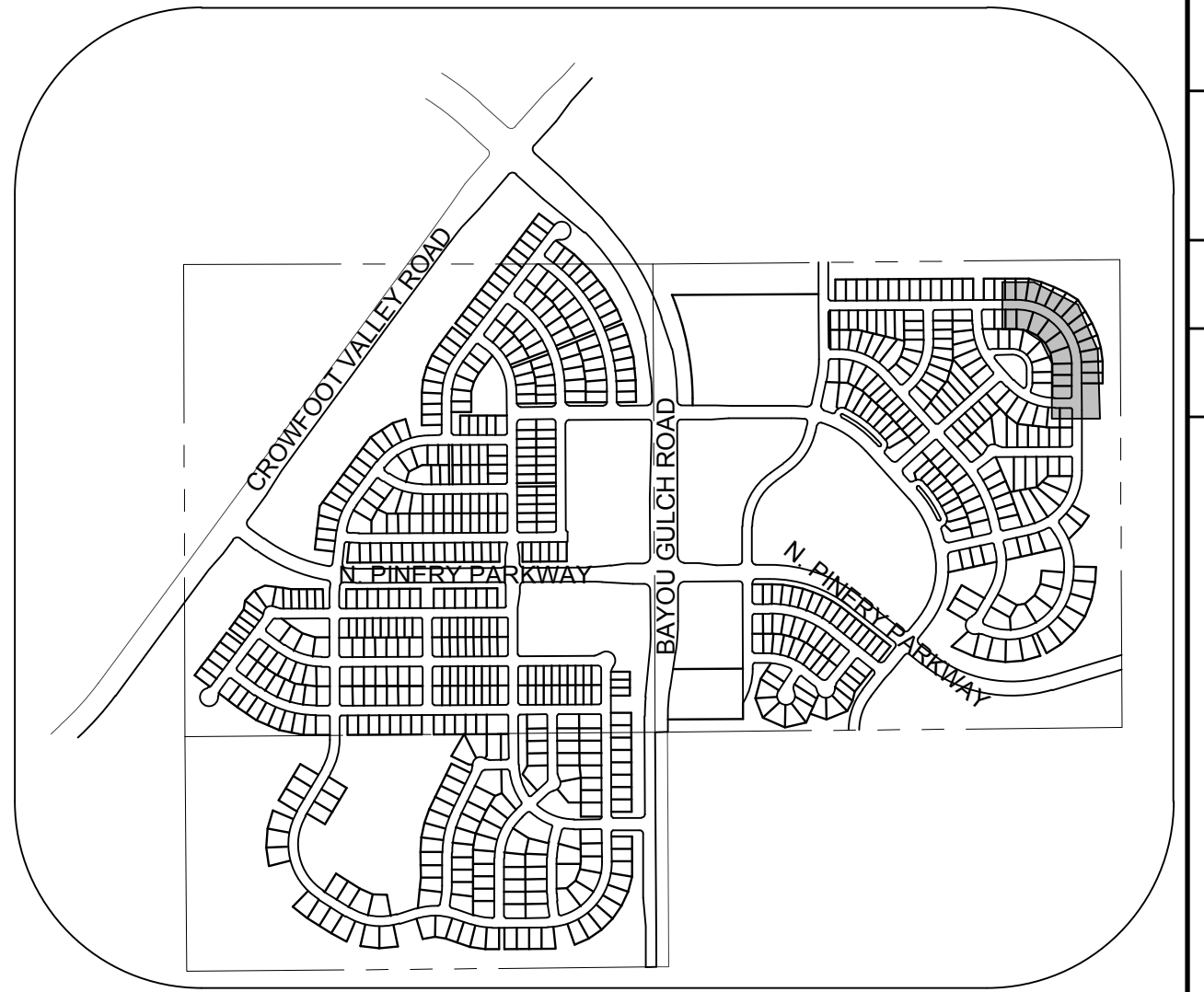
SCALE: AS SHOWN
FILE NO: 8130283701
DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017

SHEET NUMBER
12

N:\PROJECTS\BEEBALM AVE STA 20+00.00 TO 30+50.00\BEEBALM AVE STA 20+00.00 TO 30+50.00.DWG, 8/23/2017 3:28 PM



PLAN: BEEBALM AVE STA: 20+00.00 TO 30+50.00
HORIZONTAL SCALE: 1" = 50'



KEYMAP
N.T.S.
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊠	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊠	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊠	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊠	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊠	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊠	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊠	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊠	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊠	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊠	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊠	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊠	EXISTING FIRE HYDRANT	8" W	PROPOSED WATER LINE
⊠	PROPOSED LIGHT POLE	---	EXISTING 60" RAW WATER LINE
⊠	PROPOSED SIDEWALK	---	SECTION LINE
⊠	PROPOSED SIDEWALK RAMP	---	FILING BOUNDARY
10.00	EXISTING ELEVATION	---	EXISTING FIBER OPTIC LINE
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊠	PROPOSED STORM DRAIN INLET	---	EXISTING TELEPHONE LINE
⊠	PROPOSED STORM DRAIN MANHOLE	---	

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

PROFILE: BEEBALM AVE STA: 20+00.00 TO 30+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED AT THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

10333 E. Dry Creek Rd.

Englewood, CO 80110

Tel: (720) 482-9526

Fax: (720) 482-9546



ESX MANAGEMENT

7353 South Alton Way

CENTENNIAL, CO 80112

TRAILS AT CROWFOOT

FILING 10 CONSTRUCTION DRAWINGS

WATER PLAN & PROFILE

BEEBALM AVENUE

DRAWN BY: RHR

CHECKED BY: JJ

DATE: SEPTEMBER 2017

SHEET NUMBER

13

SCALE: AS SHOWN

FILE NO: 8130283701

Date

Appr.

Date

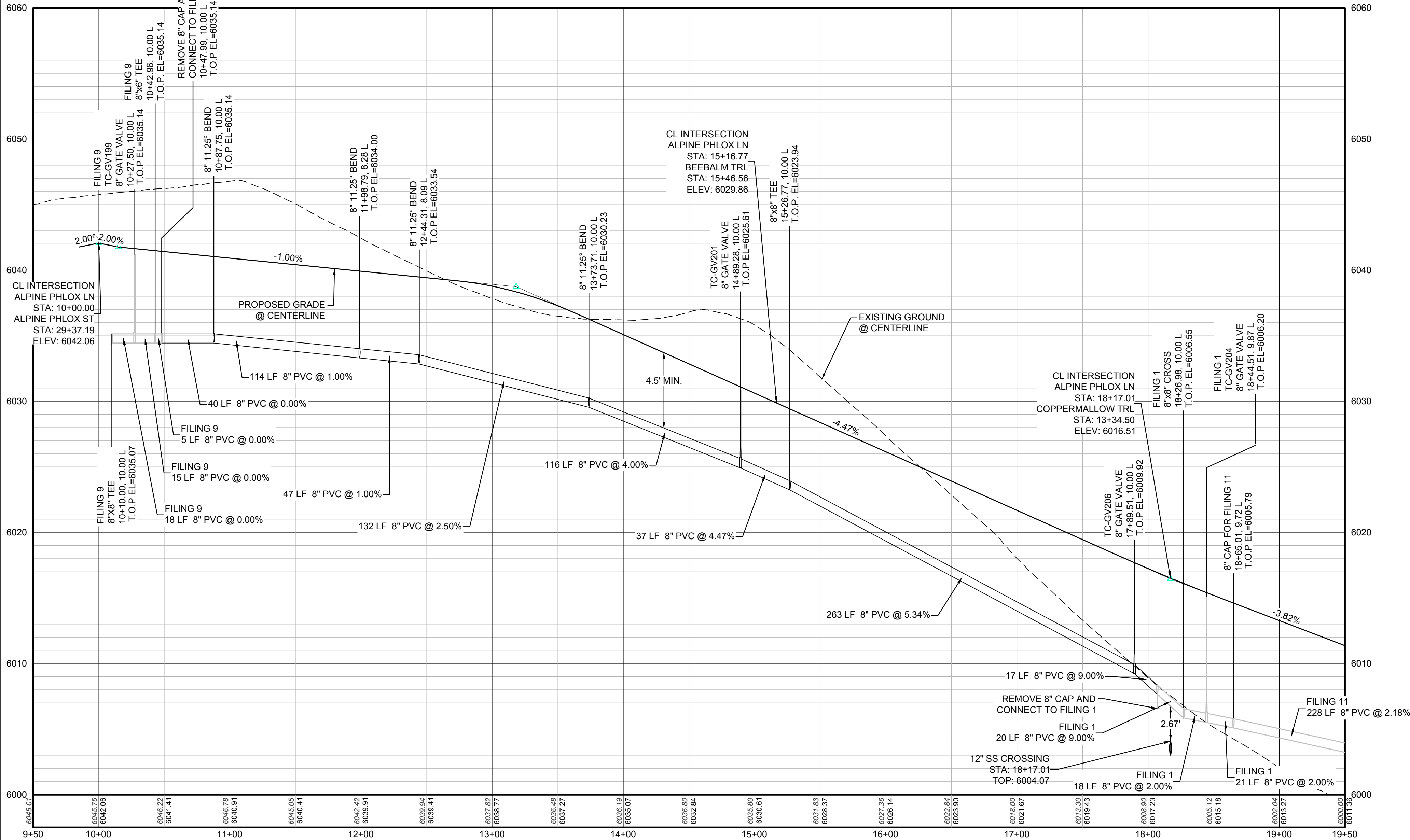
Revisions

No.

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\SET\CD\SF\09\PARKER WATER AND SANITATION\WATER PLAN AND PROFILE\ALPINE PHLOX LANE.DWG, 9/22/2017 3:33 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987



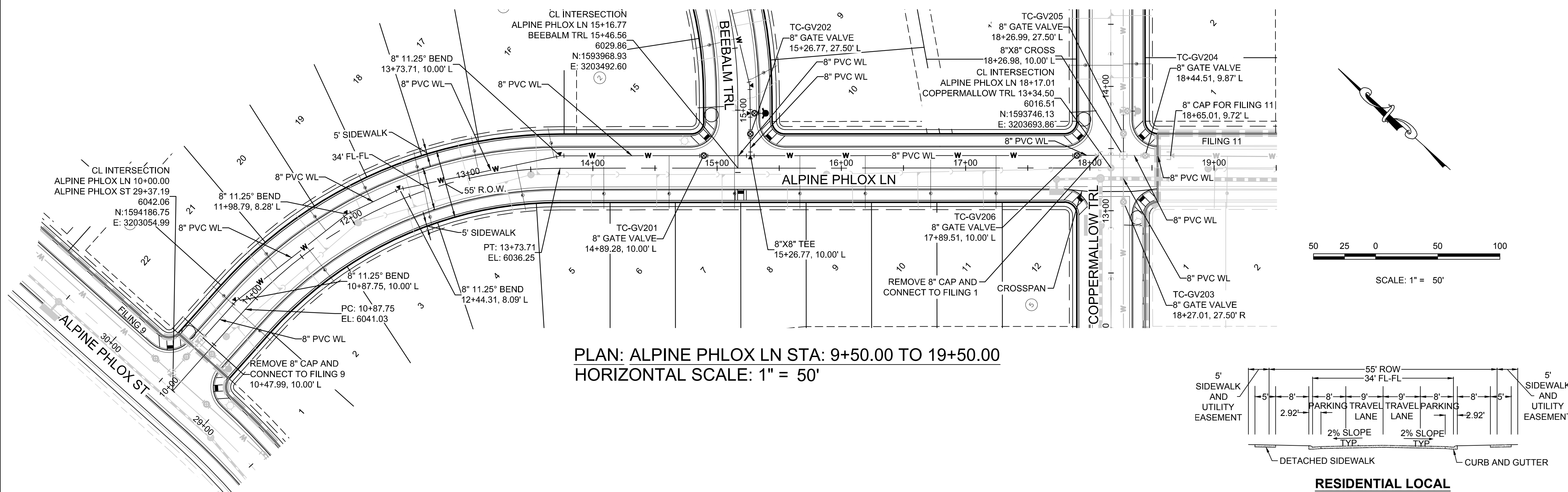
PROFILE: ALPINE PHLOX LN STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
A DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

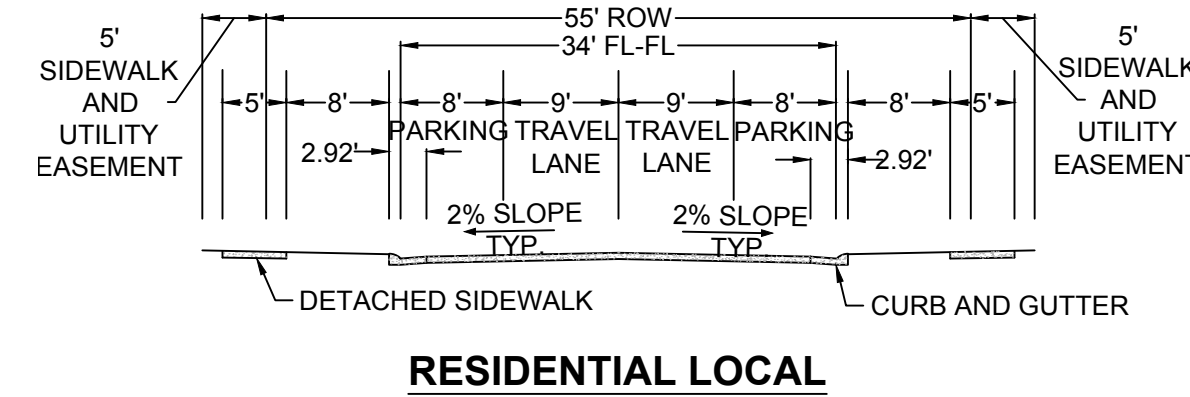
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

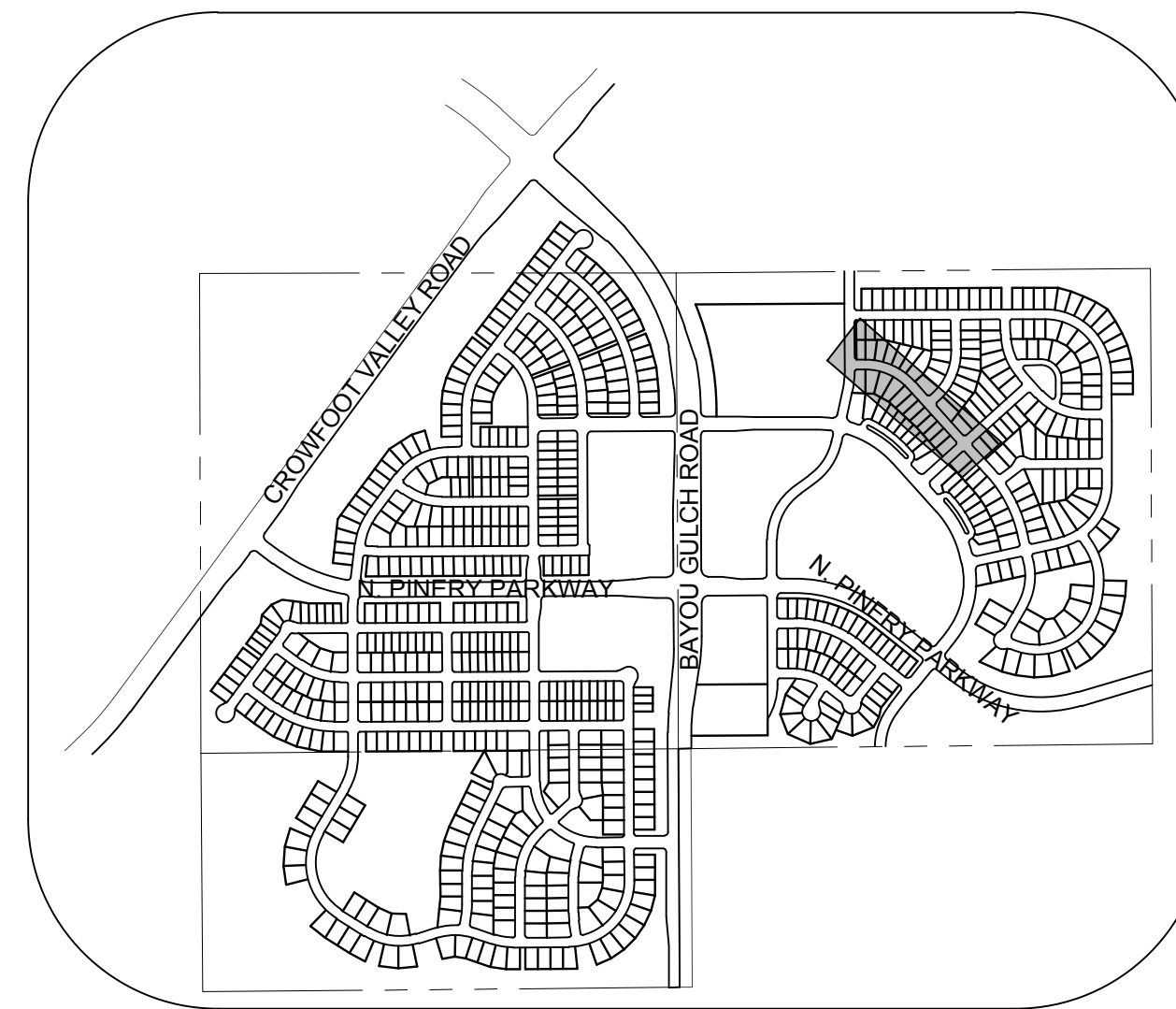
BRIAN P. WILSON
COLORADO P.E. 0050067



PLAN: ALPINE PHLOX LN STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL



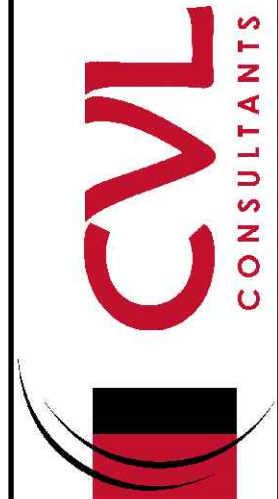
KEYMAP
N.T.S.
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊠	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊠	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊠	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊠	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊠	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊠	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊠	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊠	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊠	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊠	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊠	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊠	EXISTING FIRE HYDRANT	---	PROPOSED WATER LINE
⊠	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
⊠	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
⊠	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊠	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊠	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9548



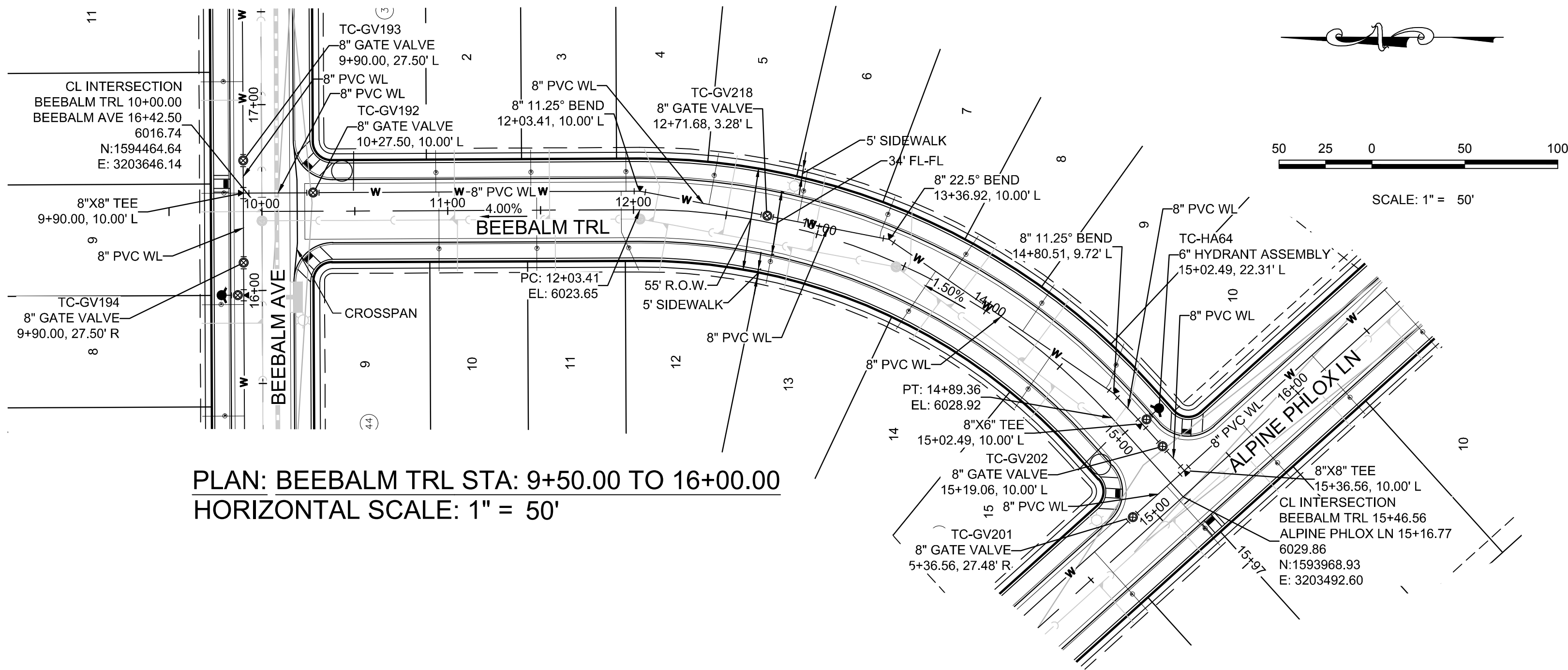
ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
ALPINE PHLOX LANE

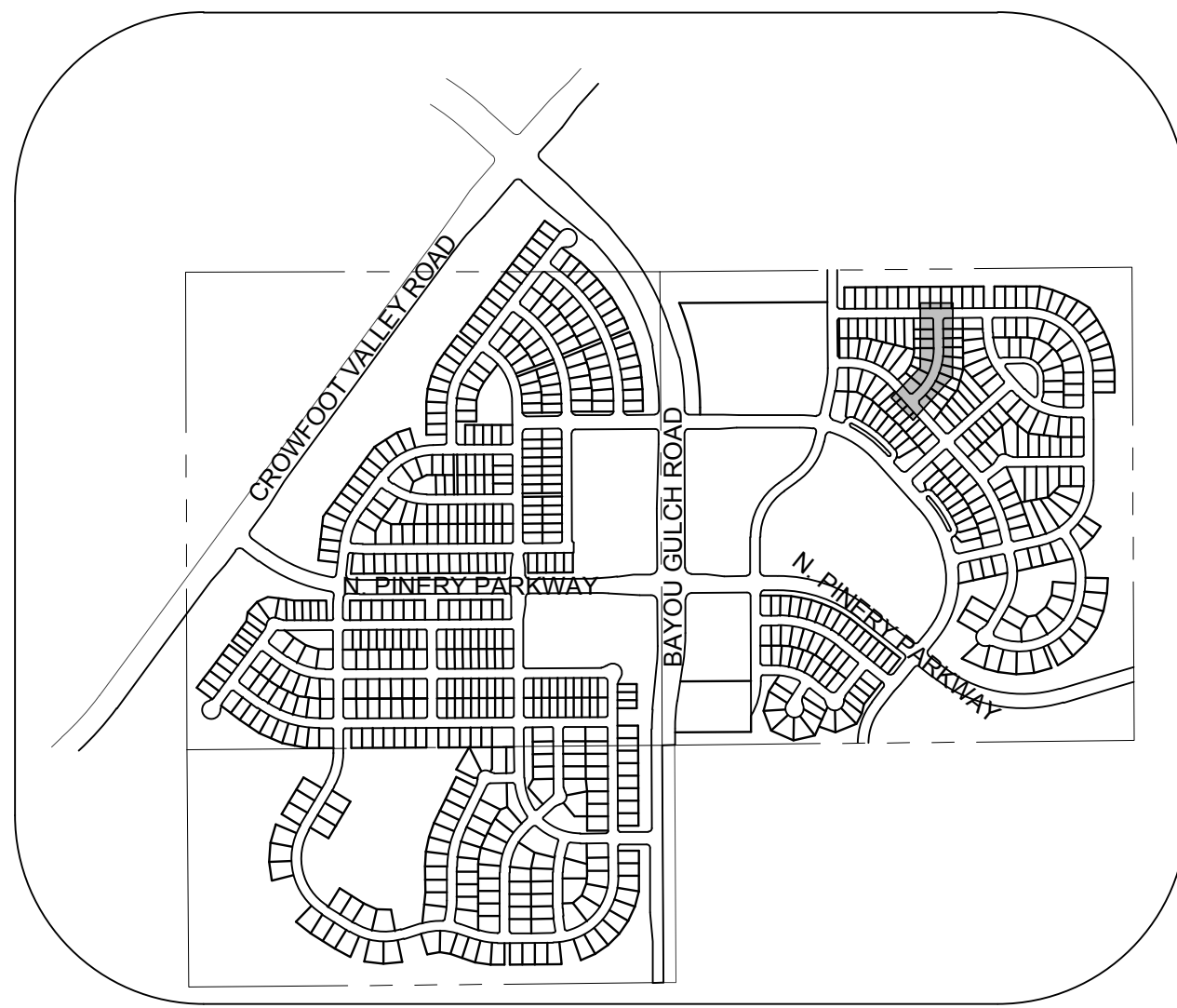
DRAWN BY: JHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017

SHEET NUMBER
14

No.	Revisions	Date	Init.	Appr.	Date



PLAN: BEEBALM TRL STA: 9+50.00 TO 16+00.00
HORIZONTAL SCALE: 1" = 50'

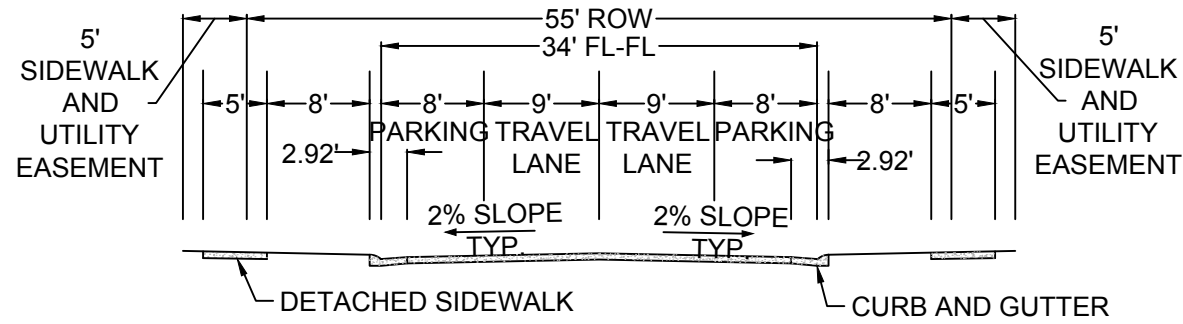


KEYMAP
N.T.S.
LEGEND

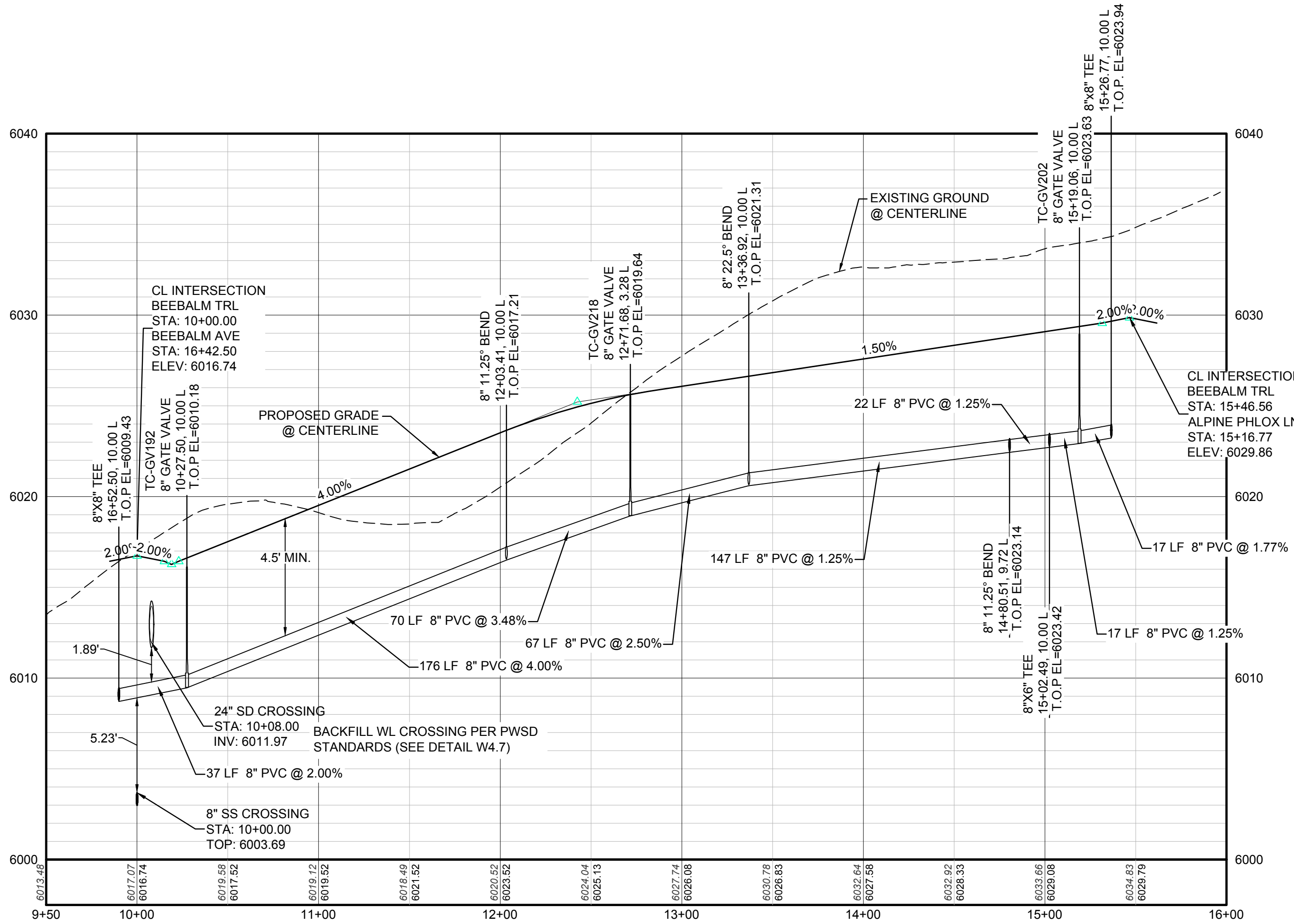
2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊠	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊠	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊠	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊠	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊠	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊠	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊠	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊠	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊠	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊠	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊠	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊠	EXISTING FIRE HYDRANT	8"	PROPOSED WATER LINE
⊠	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
⊠	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
⊠	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊠	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊠	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		



RESIDENTIAL LOCAL



PROFILE: BEEBALM TRL STA: 9+50.00 TO 16+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9548



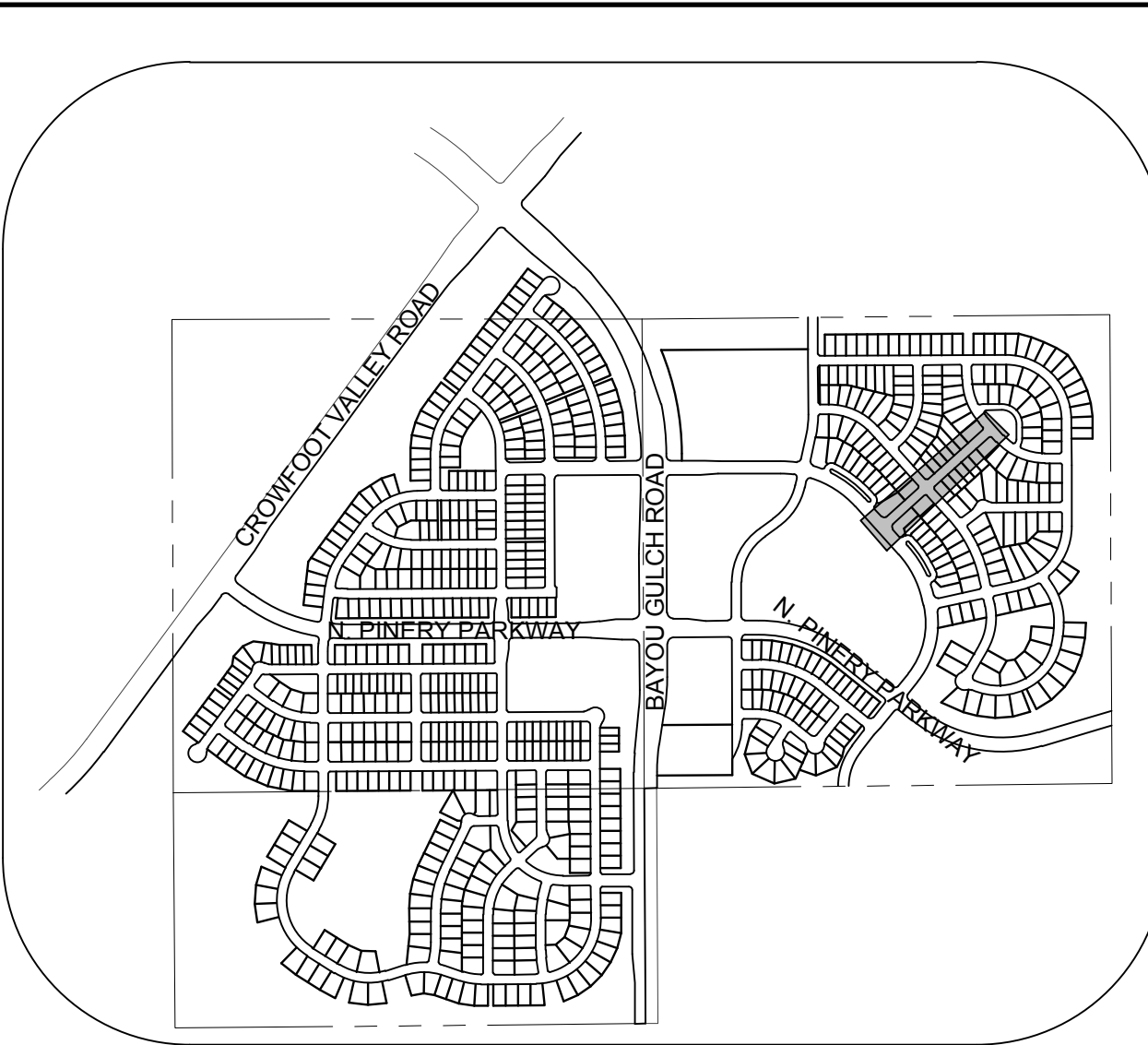
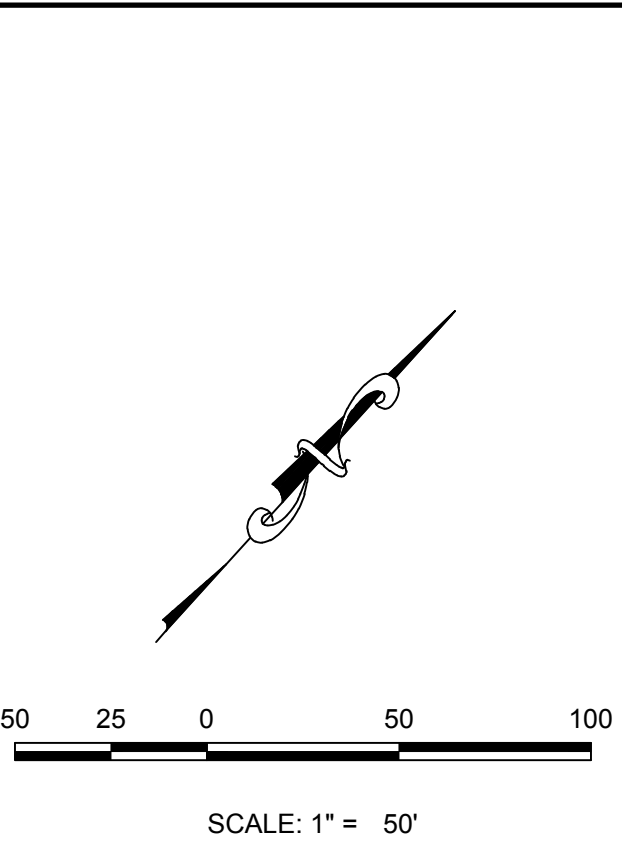
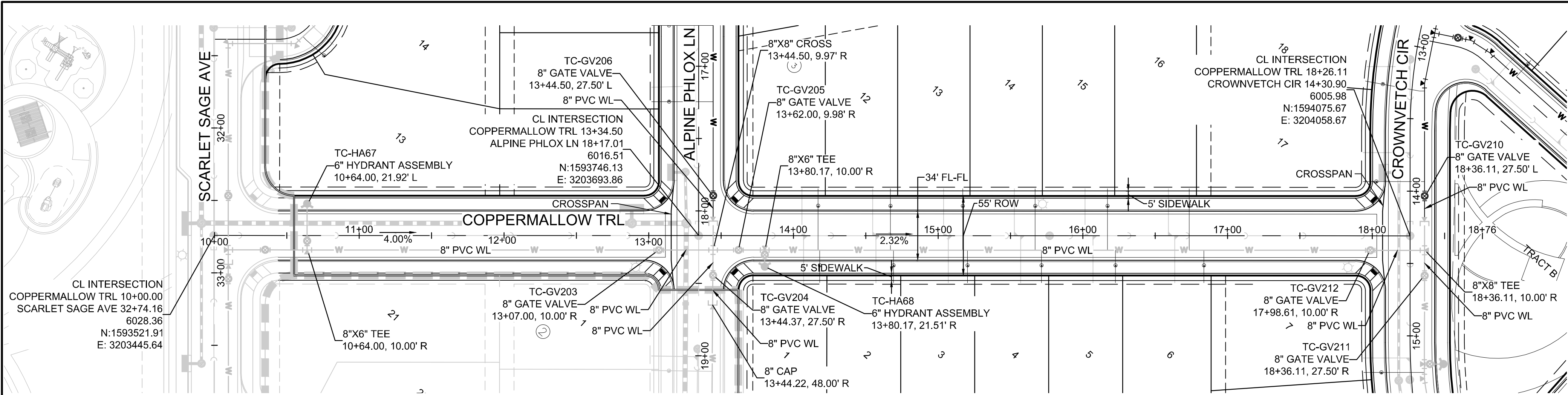
ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
BEEBALM TRAIL

DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017

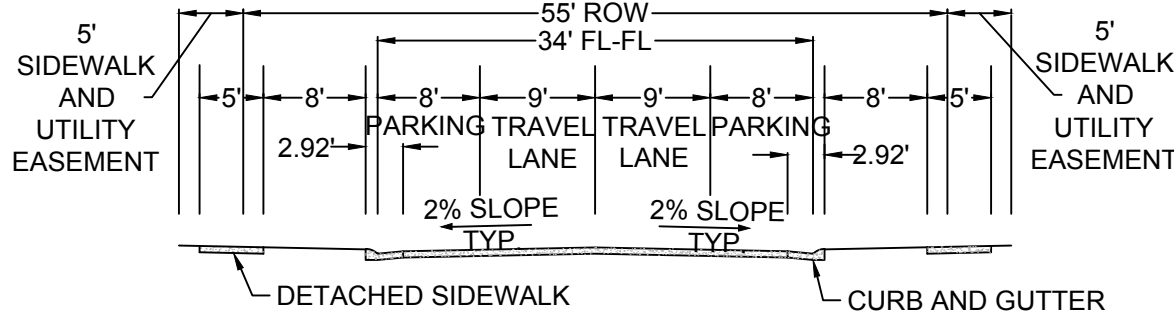
SHEET NUMBER
15

SCALE: AS SHOWN
FILE NO: 8130283701

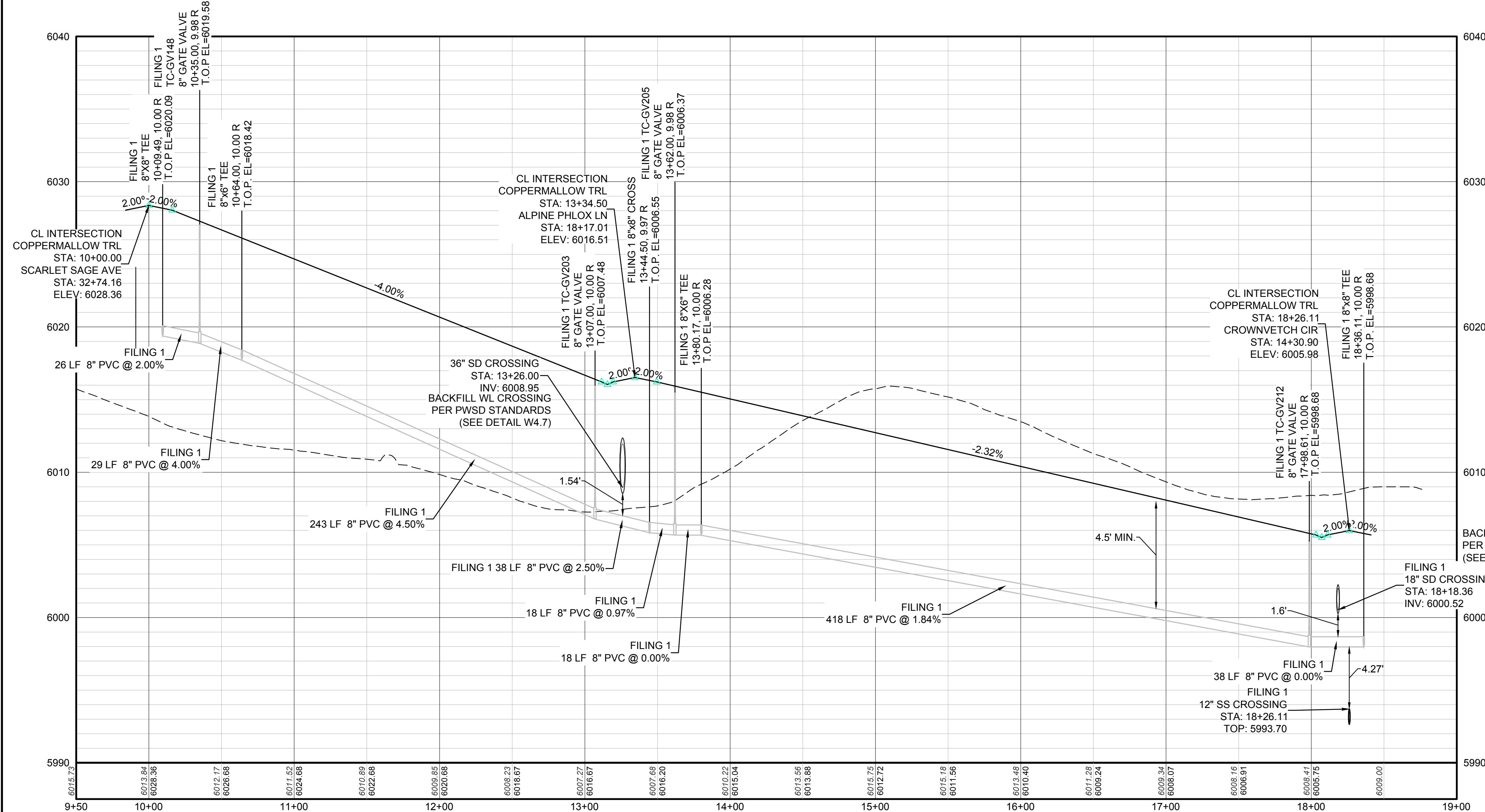


KEYMAP
N.T.S.
LEGEND

NOTE:
1. WATERLINE INSTALLED WITH FILING 1 WATER SERVICES TO BE INSTALLED WITH FILING 10



RESIDENTIAL LOCAL



PROFILE: COPPERMALLOW TRL STA: 9+50.00 TO 19+00.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊕	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊖	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊗	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊕	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊕	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊕	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊕	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊕	EXISTING FIRE HYDRANT	---	PROPOSED WATER LINE
⊕	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
⊕	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊕	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

PREPARED UNDER THE SUPERVISION OF

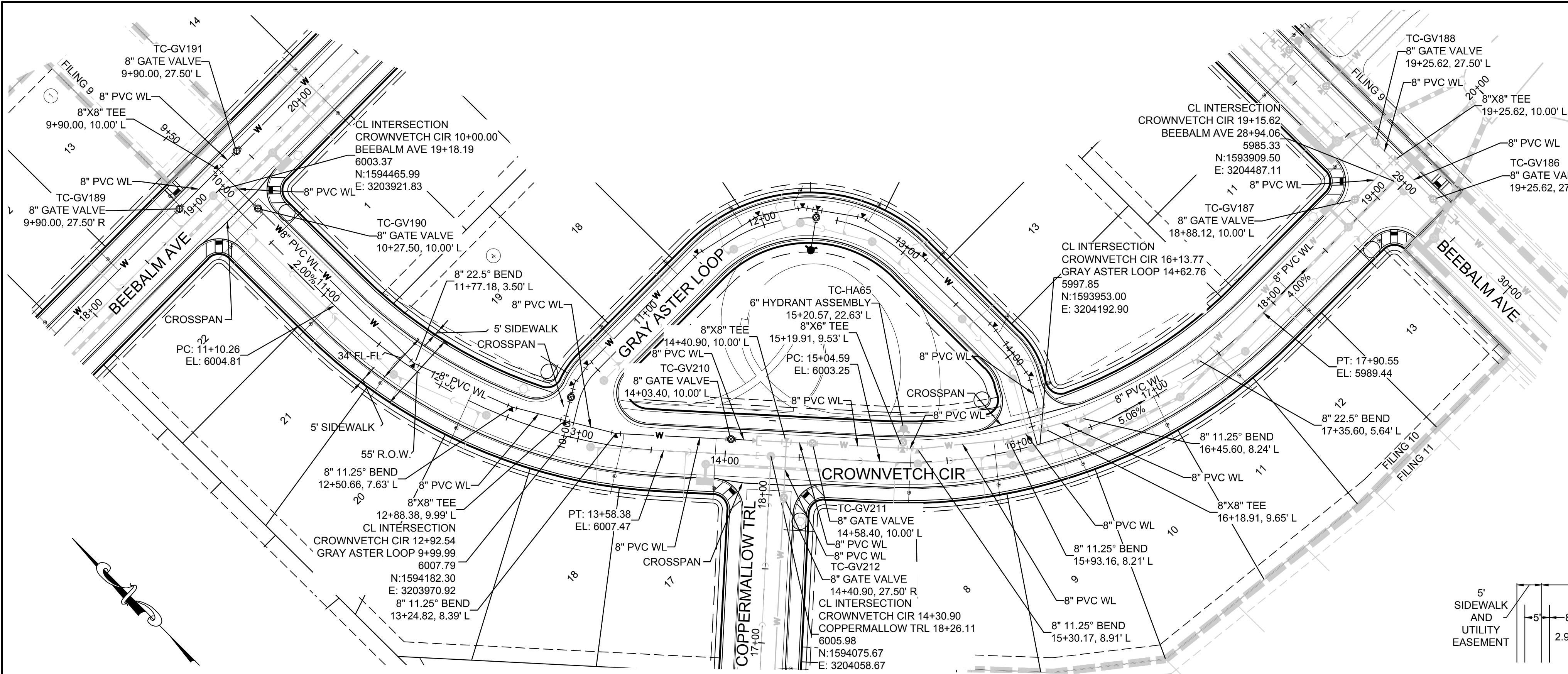
BRIAN P. WILSON
COLORADO P.E. 0050067

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987

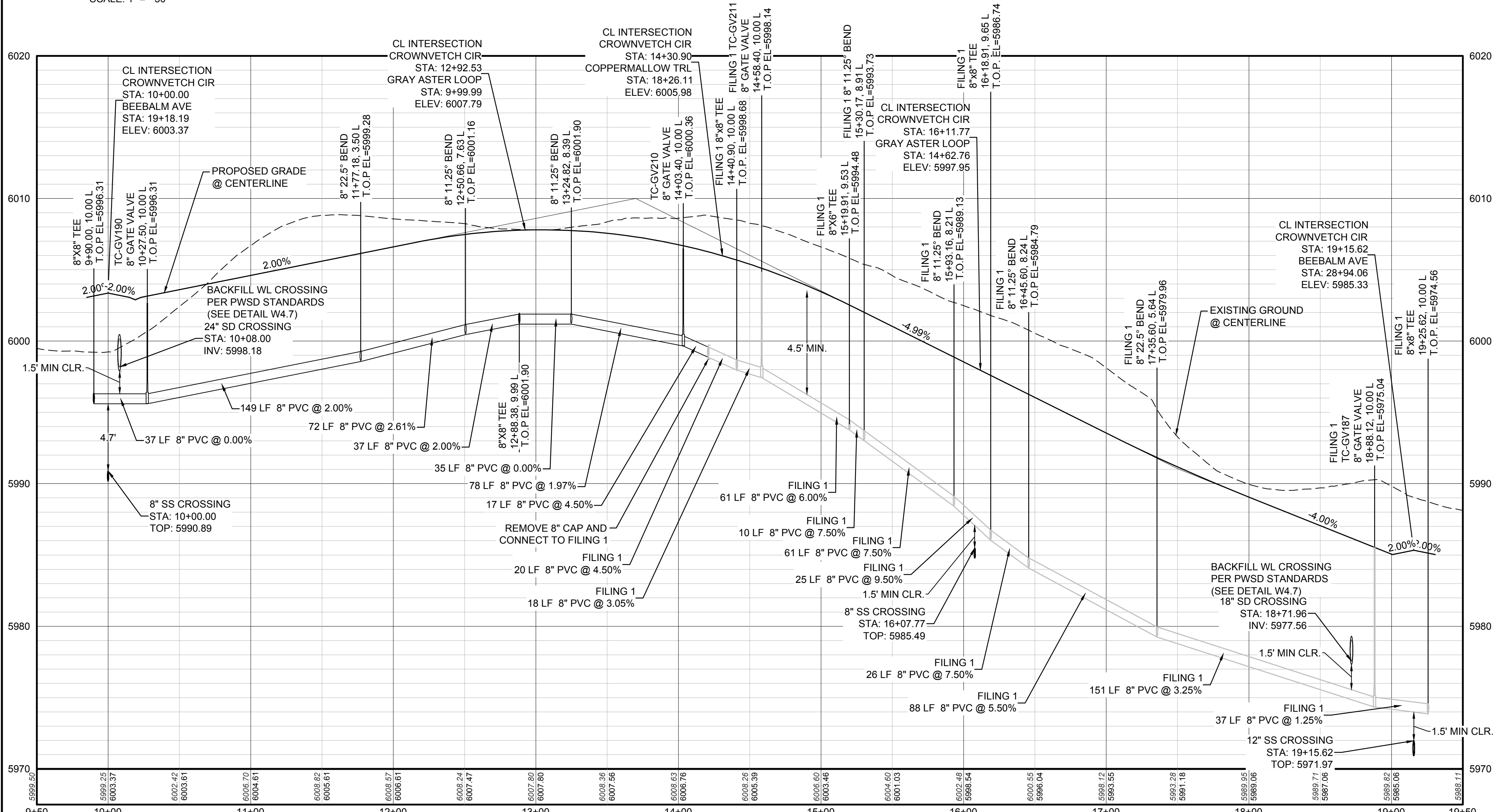
BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

SHEET NUMBER	DATE:	SEPTEMBER 2017	Revisions	No.	Date	Init.	Appr.	Date
	CHECKED BY:	JU						
	DRAWN BY:	RHR						
	SCALE:	AS SHOWN						
FILE NO:		8130283701		TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER PLAN & PROFILE COPPERMALLOW TRAIL				
ESX MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		CVL CONSULTANTS 10333 E. Dry Creek Rd. Suite 110 Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546						



PLAN: CROWNVETCH CIR STA: 9+50.00 TO 19+50.00
HORIZONTAL SCALE: 1" = 50'



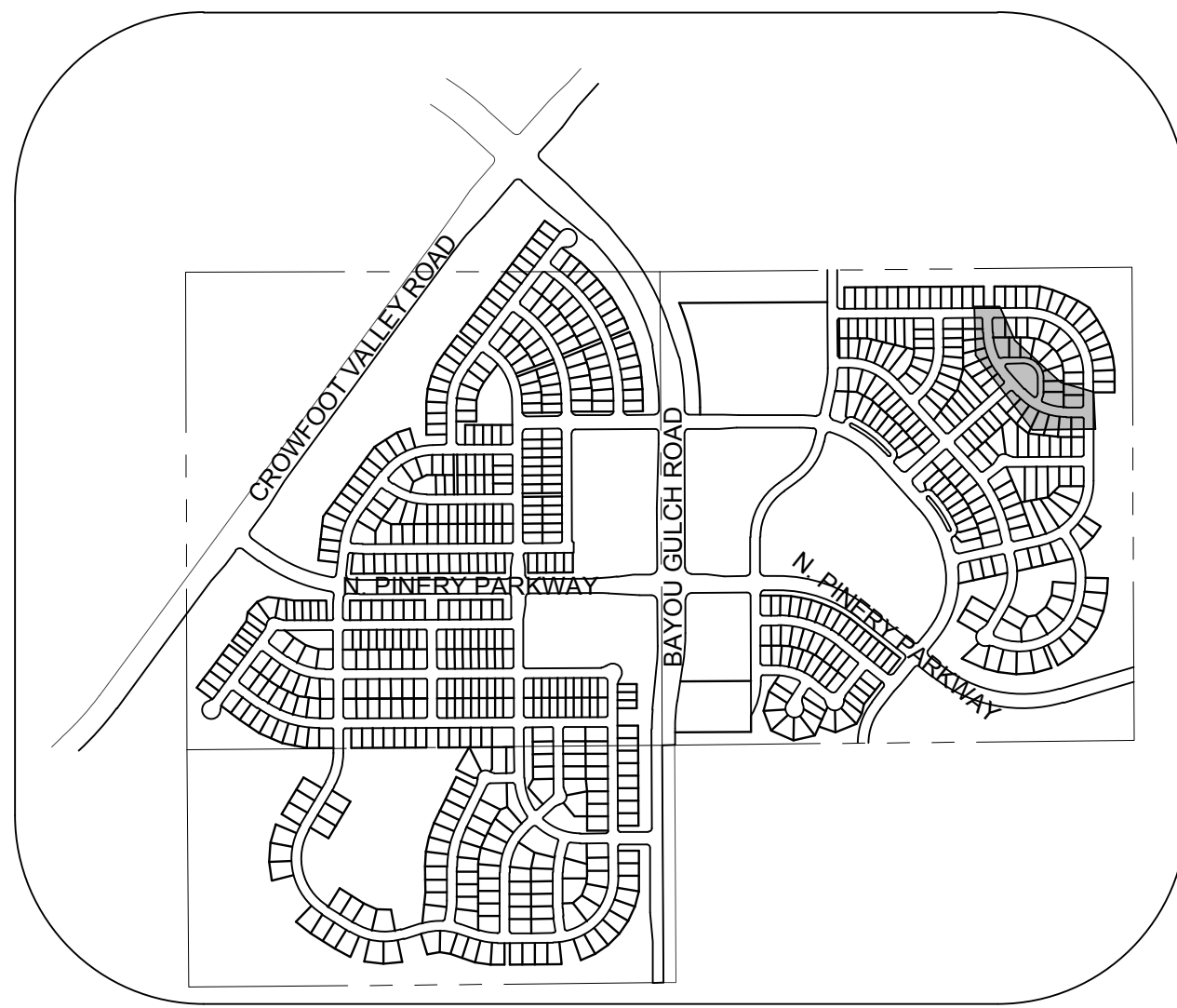
PROFILE: CROWNVETCH CIR STA: 9+50.00 TO 19+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

BRIAN P. WILSON
COLORADO P.E. 0050067



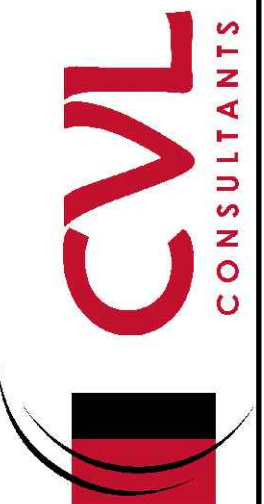
KEYMAP
N.T.S.
LEGEND

- | | | | |
|-------|---------------------------------------|------|-------------------------------------|
| 2 | BLOCK NUMBER | △ | PROPOSED RANGE POINT |
| A | LOT TYPE | --- | CENTERLINE |
| 6 | LOT NUMBER | --- | RIGHT-OF-WAY |
| ⊗ | PROPOSED BUTTERFLY VALVE | --- | PROPERTY LINE |
| ⊕ | PROPOSED CAP WITH END OF LINE BLOWOFF | --- | EDGE OF PAVEMENT |
| ⊖ | PROPOSED REDUCER | → | PROPOSED DIRECTION OF FLOW |
| ⊗ | PROPOSED VALVE | 1.0% | PROPOSED SLOPE & DIRECTION |
| ⊕ | PROPOSED FIRE HYDRANT | 5615 | EXISTING 5' CONTOUR |
| ⊖ | PROPOSED WL FITTING WITH THRUST BLOCK | 5616 | EXISTING 1' CONTOUR |
| ⊗ | PROPOSED FLARED END SECTION | 5620 | PROPOSED 5' CONTOUR |
| ⊕ | PROPOSED LOW POINT BLOW-OFF | 5607 | PROPOSED 1' CONTOUR |
| ⊖ | PROPOSED AIR VALVE | --- | PROPOSED STORM DRAIN |
| ⊗ | EXISTING BLOW OFF VALVE | --- | PROPOSED SEWER LINE WITH MANHOLE |
| ⊕ | EXISTING VALVE | --- | PROPOSED SEWER LATERAL |
| ⊖ | EXISTING FIRE HYDRANT | 8" W | PROPOSED WATER LINE |
| ⊗ | PROPOSED LIGHT POLE | --- | EXISTING 60" RAW WATER LINE |
| ⊕ | PROPOSED SIDEWALK | --- | SECTION LINE |
| ⊖ | PROPOSED SIDEWALK RAMP | --- | FILING BOUNDARY |
| 10.00 | EXISTING ELEVATION | --- | EXISTING FIBER OPTIC LINE |
| 10.00 | PROPOSED DESIGN ELEVATION | --- | EXISTING OVERHEAD HIGH VOLTAGE LINE |
| ⊕ | PROPOSED STORM DRAIN INLET | --- | EXISTING TELEPHONE LINE |
| ⊖ | PROPOSED STORM DRAIN MANHOLE | --- | |

ABBREVIATIONS

- | | | | |
|-----|------------------------|--------|---------------------------------|
| AD | ANGLE DIFFERENCE | N.T.S. | NOT TO SCALE |
| BVC | BEGIN VERTICAL CURVE | PL | PROPERTY LINE |
| BVP | BEGIN VERTICAL PROFILE | PVC | POLYVINYL CHLORIDE |
| CRR | CURB RETURN RADIUS | PVI | PT. OF VERTICAL INTERSECTION |
| EL | ELEVATION | PVT | POINT OF VERTICAL TANGENT |
| EP | EDGE OF PAVEMENT | RCBC | REINFORCED CONCRETE BOX CULVERT |
| EVC | END VERTICAL CURVE | RCP | REINFORCED CONCRETE PIPE |
| EVP | END VERTICAL PROFILE | ROW | RIGHT OF WAY |
| FG | FINISHED GROUND | SD | STORM DRAIN |
| FL | FLOW LINE | SL | SECTION LINE |
| GV | GATE VALVE | SS | SANITARY SEWER |
| HA | HYDRANT ASSEMBLY | STA | STATION |
| HCR | HANDICAP CURB RAMP | T.O.P. | TOP OF PIPE |
| HP | HIGH POINT | UE | UTILITY EASEMENT |
| INV | INVERT | VC | VERTICAL CURVE |
| K | CURVATURE COEFFICIENT | WL | WATER LINE |
| LF | LINEAR FEET | WSE | WATER SURFACE ELEVATION |
| MH | MANHOLE | | |

10333 E. Dry Creek Rd.
Englewood, CO 80110
Tel: (720) 482-9526
Fax: (720) 482-9548



ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
CROWNVETCH CIR

SCALE:
AS SHOWN
FILE NO:
8130283701

DRAWN BY:
RHR
CHECKED BY:
JLJ
DATE:
SEPTEMBER 2017

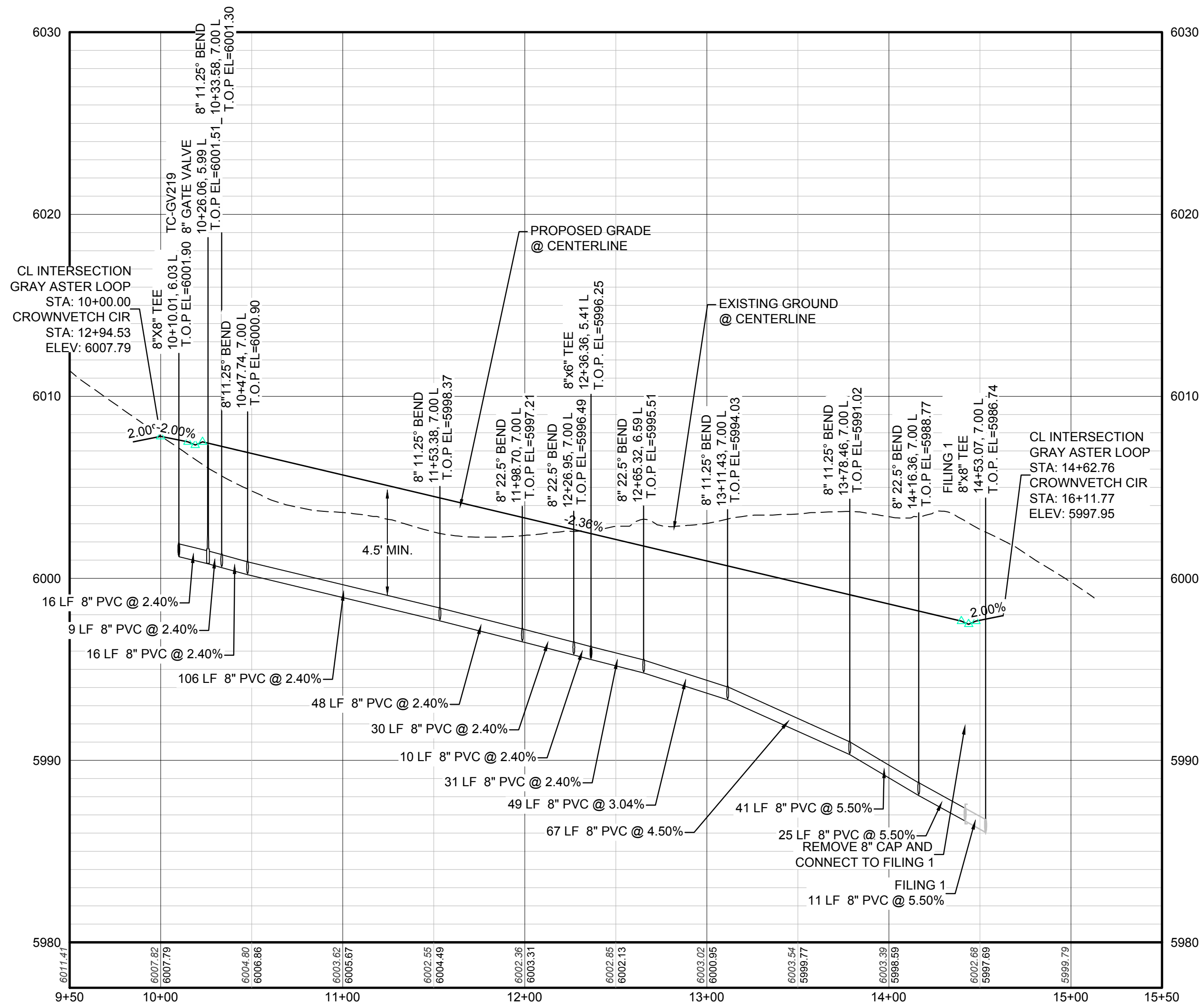
SHEET NUMBER
17

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987
UTILITY NOTIFICATION
CENTER OF COLORADO

N:\PROJECTS\SSR\BANCROFT\ENGINEERING\SSR\BANCROFT\WATER AND SANITATION\WATER PLAN AND PROFILE\GRAY ASTER LOOP.DWG, LAURAC, 8/23/2017 3:51 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987



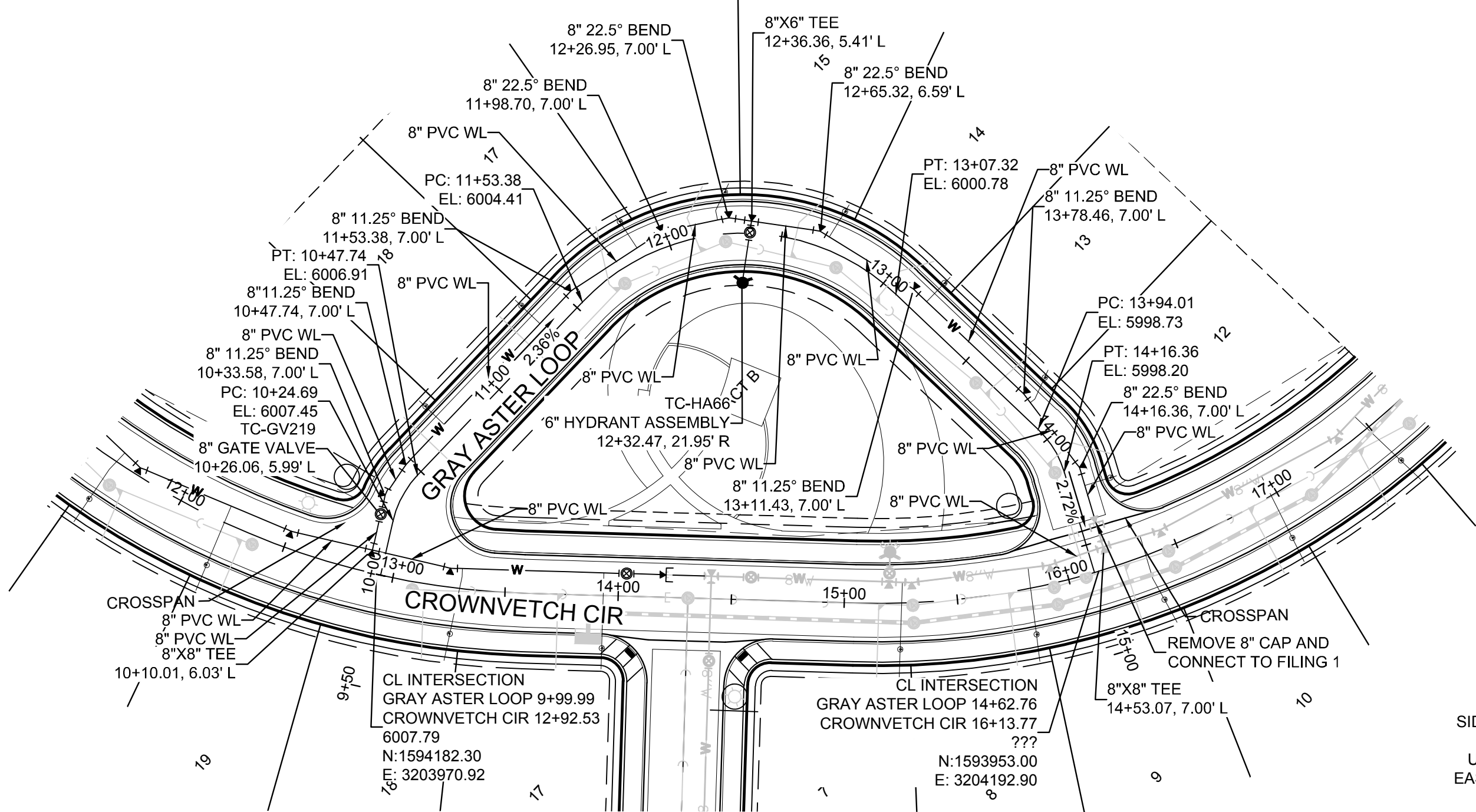
PROFILE: GRAY ASTER LOOP STA: 9+50.00 TO 15+50.00
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BENCHMARK
DOUGLAS COUNTY CONTROL POINT KNOWN AS 1.060032, BEING A 3-1/4" ALUMINUM CAP, BEING LOCATED IN THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, HAVING A PUBLISHED ELEVATION OF 1799.2870 METERS (5903.13 FEET) NAVD '88 DATUM.

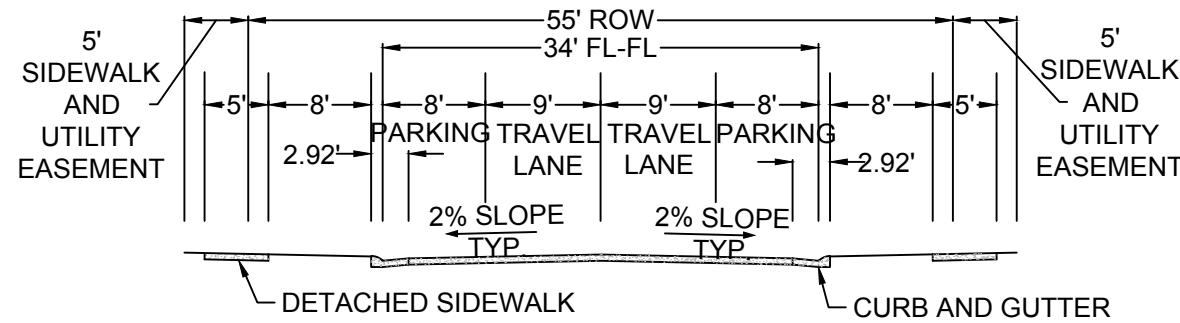
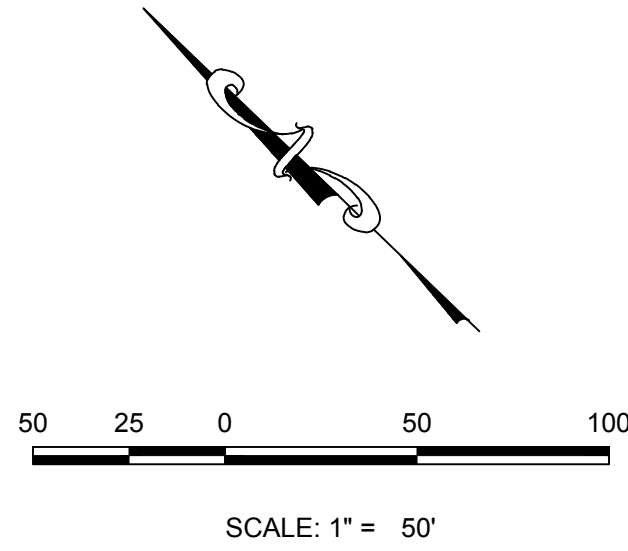
BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9 BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2" ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR SOUTH 00°15'06" EAST, 2648.70 FEET.

PREPARED UNDER THE
SUPERVISION OF

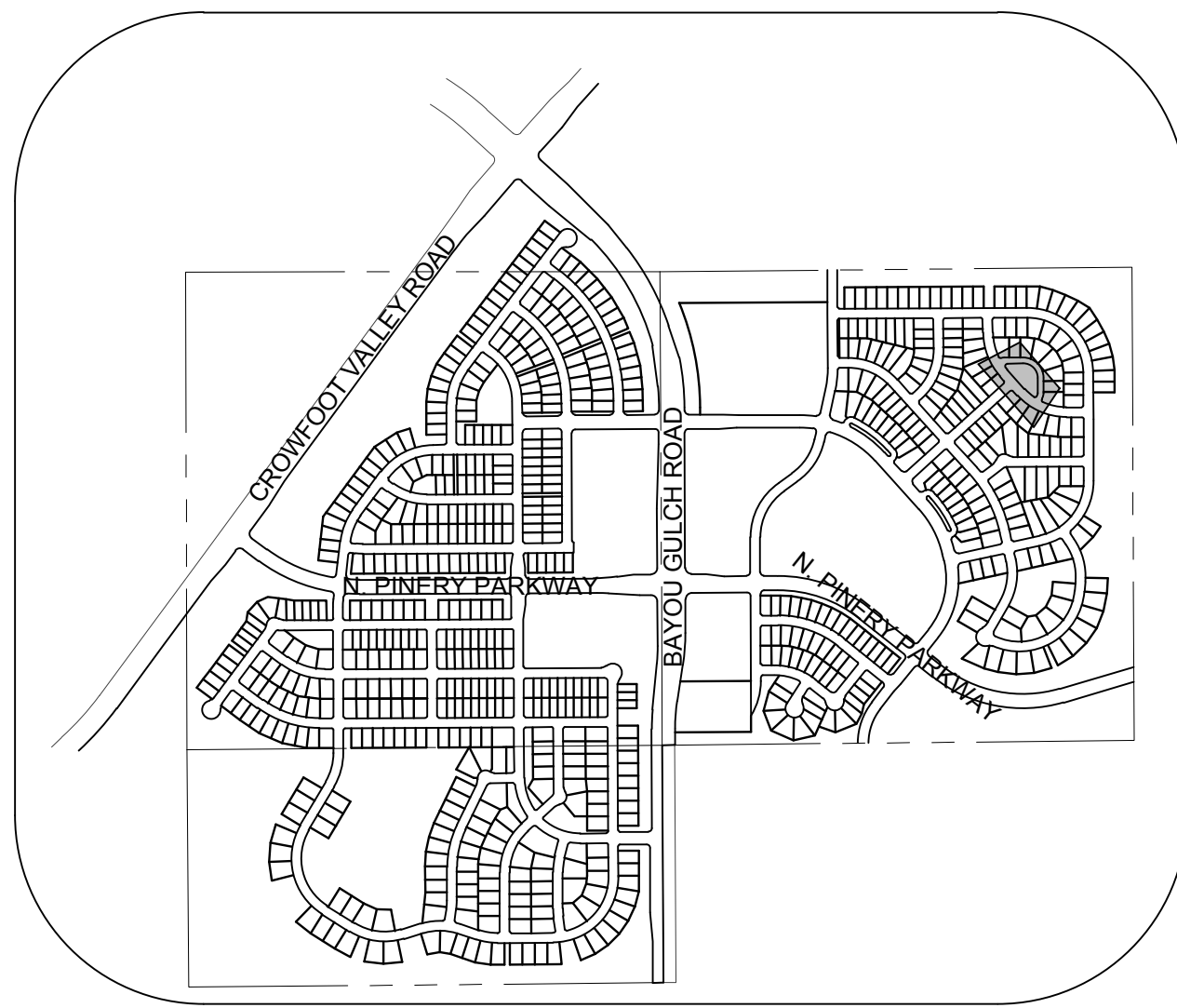
BRIAN P. WILSON
COLORADO P.E. 0050067



PLAN: GRAY ASTER LOOP STA: 9+50.00 TO 15+50.00
HORIZONTAL SCALE: 1" = 50'



RESIDENTIAL LOCAL



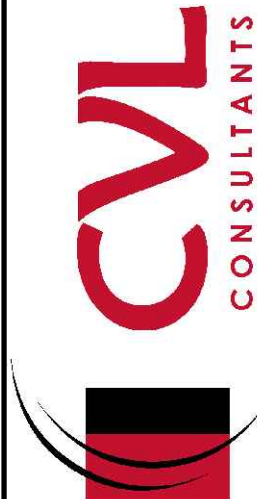
KEYMAP
N.T.S.
LEGEND

2	BLOCK NUMBER	△	PROPOSED RANGE POINT
A	LOT TYPE	---	CENTERLINE
6	LOT NUMBER	---	RIGHT-OF-WAY
⊗	PROPOSED BUTTERFLY VALVE	---	PROPERTY LINE
⊕	PROPOSED CAP WITH END OF LINE BLOWOFF	---	EDGE OF PAVEMENT
⊖	PROPOSED REDUCER	→	PROPOSED DIRECTION OF FLOW
⊗	PROPOSED VALVE	1.0%	PROPOSED SLOPE & DIRECTION
⊕	PROPOSED FIRE HYDRANT	5615	EXISTING 5' CONTOUR
⊖	PROPOSED WL FITTING WITH THRUST BLOCK	5616	EXISTING 1' CONTOUR
⊕	PROPOSED FLARED END SECTION	5620	PROPOSED 5' CONTOUR
⊖	PROPOSED LOW POINT BLOW-OFF	5607	PROPOSED 1' CONTOUR
⊗	PROPOSED AIR VALVE	---	PROPOSED STORM DRAIN
⊕	EXISTING BLOW OFF VALVE	---	PROPOSED SEWER LINE WITH MANHOLE
⊖	EXISTING VALVE	---	PROPOSED SEWER LATERAL
⊕	EXISTING FIRE HYDRANT	---	PROPOSED WATER LINE
⊖	PROPOSED LIGHT POLE	---	PROPOSED WATER LATERAL W/ METER
⊗	PROPOSED SIDEWALK	---	EXISTING 60" RAW WATER LINE
⊕	PROPOSED SIDEWALK RAMP	---	SECTION LINE
10.00	EXISTING ELEVATION	---	FILING BOUNDARY
10.00	PROPOSED DESIGN ELEVATION	---	EXISTING FIBER OPTIC LINE
⊕	PROPOSED STORM DRAIN INLET	---	EXISTING OVERHEAD HIGH VOLTAGE LINE
⊖	PROPOSED STORM DRAIN MANHOLE	---	EXISTING TELEPHONE LINE

ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVINYL CHLORIDE
CRR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVP	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

10333 E. Dry Creek Rd.
Suite 110
Englewood, CO 80150
Tel: (720) 482-9526
Fax: (720) 482-9548

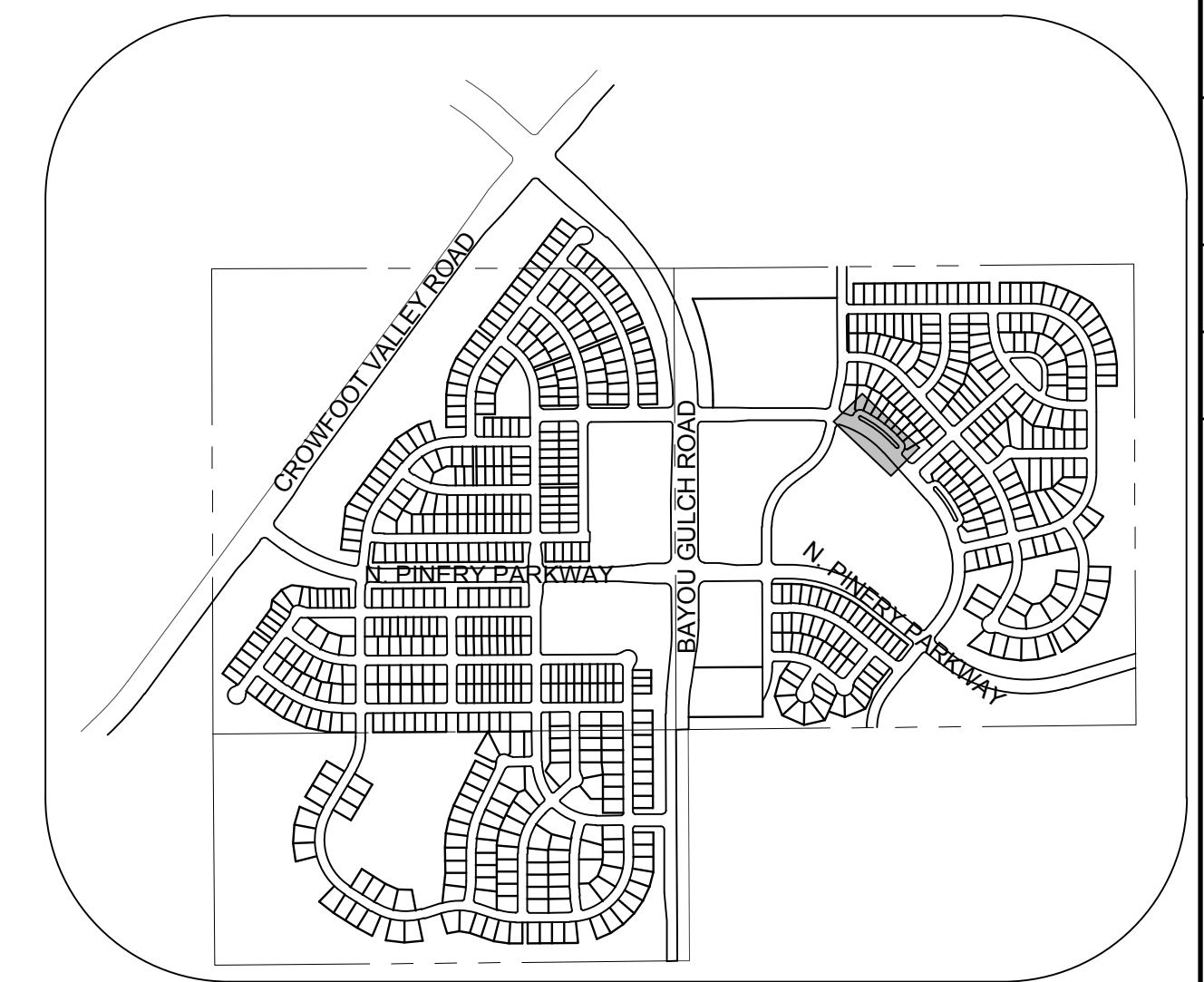


ESX MANAGEMENT
7353 South Alton Way
CENTENNIAL, CO 80112

TRAILS AT CROWFOOT
FILING 10 CONSTRUCTION DRAWINGS
WATER PLAN & PROFILE
GRAY ASTER LOOP

DRAWN BY: RHR
CHECKED BY: JJ
DATE: SEPTEMBER 2017
SCALE: AS SHOWN
FILE NO: 8130283701

SHEET NUMBER
18



5' SIDEWALK AND UTILITY EASEMENT

5' SIDEWALK AND UTILITY EASEMENT

55' ROW

34' FL-FL

5' 8' 8' 9' 9' 8' 5'

2.92'

PARKING TRAVEL LANE TRAVEL PARKING LANE

2% SLOPE TYP

2% SLOPE TYP

DETACHED SIDEWALK

CURB AND GUTTER

RESIDENTIAL LOCAL



ABBREVIATIONS

AD	ANGLE DIFFERENCE	N.T.S.	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
BVP	BEGIN VERTICAL PROFILE	PVC	POLYVIL CHLORIDE
CR	CURB RETURN RADIUS	PVI	PT. OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENT
EP	EDGE OF PAVEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EVF	END VERTICAL PROFILE	ROW	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FL	FLOW LINE	SL	SECTION LINE
GV	GATE VALVE	SS	SANITARY SEWER
HA	HYDRANT ASSEMBLY	STA	STATION
HCR	HANDICAP CURB RAMP	T.O.P.	TOP OF PIPE
HP	HIGH POINT	UE	UTILITY EASEMENT
INV	INVERT	VC	VERTICAL CURVE
K	CURVATURE COEFFICIENT	WL	WATER LINE
LF	LINEAR FEET	WSE	WATER SURFACE ELEVATION
MH	MANHOLE		

TRAILS AT CROWFOOT
 FILING 10 CONSTRUCTION DRAWINGS
 WATER PLAN & PROFILE
 ALPINE DAISY CIRCLE

19

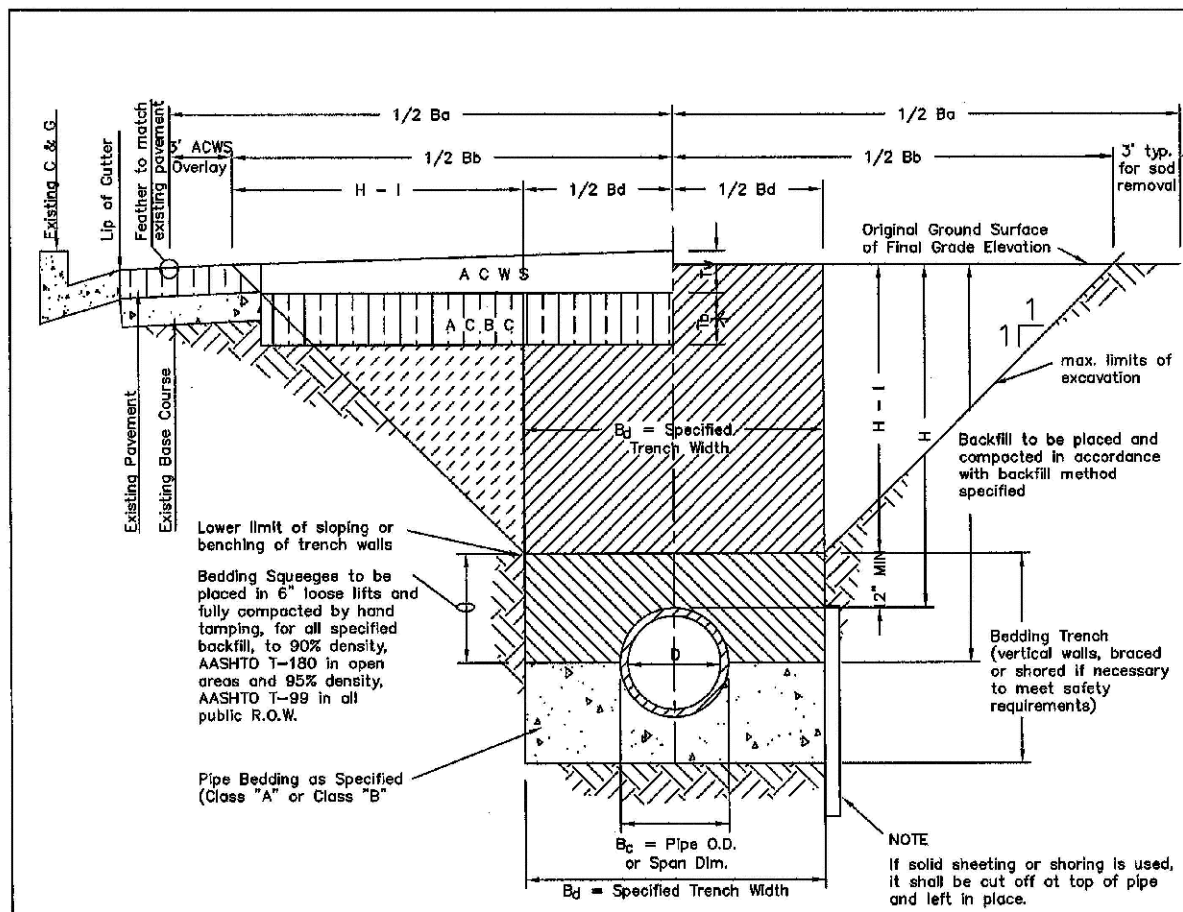


UNCC
UTILITY NOTIFICATION
COUNCIL OF NORTH CAROLINA

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

BASIS OF BEARINGS:
THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 9
BEING MONUMENTED AT THE NORTHEAST CORNER OF SAID
SECTION 9 BY A 3-1/4" ALUMINUM CAP STAMPED LS 23053 AND AT
THE EAST QUARTER CORNER OF SAID SECTION 9 BY A 2-1/2"
ALUMINUM CAP STAMPED LS 6935 BEING CONSIDERED TO BEAR
SOUTH 00°15'06" EAST, 2648.70 FEET.

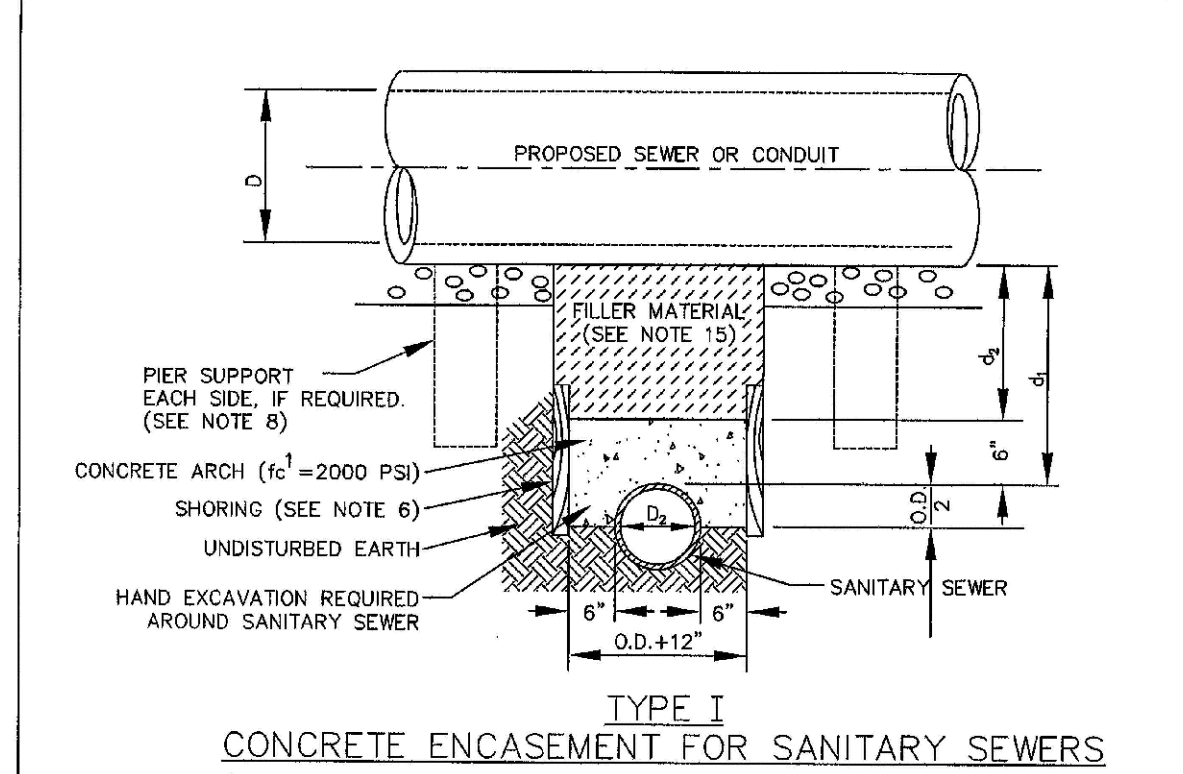
BRIAN P. WILSON
COLORADO P.E. 0050067



STREET WIDTH	ASPHALTIC BASE COURSE (A.C.B.C.)	ASPHALTIC WEARING SURFACE (A.C.W.S.)	TOTAL THICKNESS (T ₀)
UP TO 30'	4"	2"	6"
30' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
UNDER 48'	6"	3"	9"

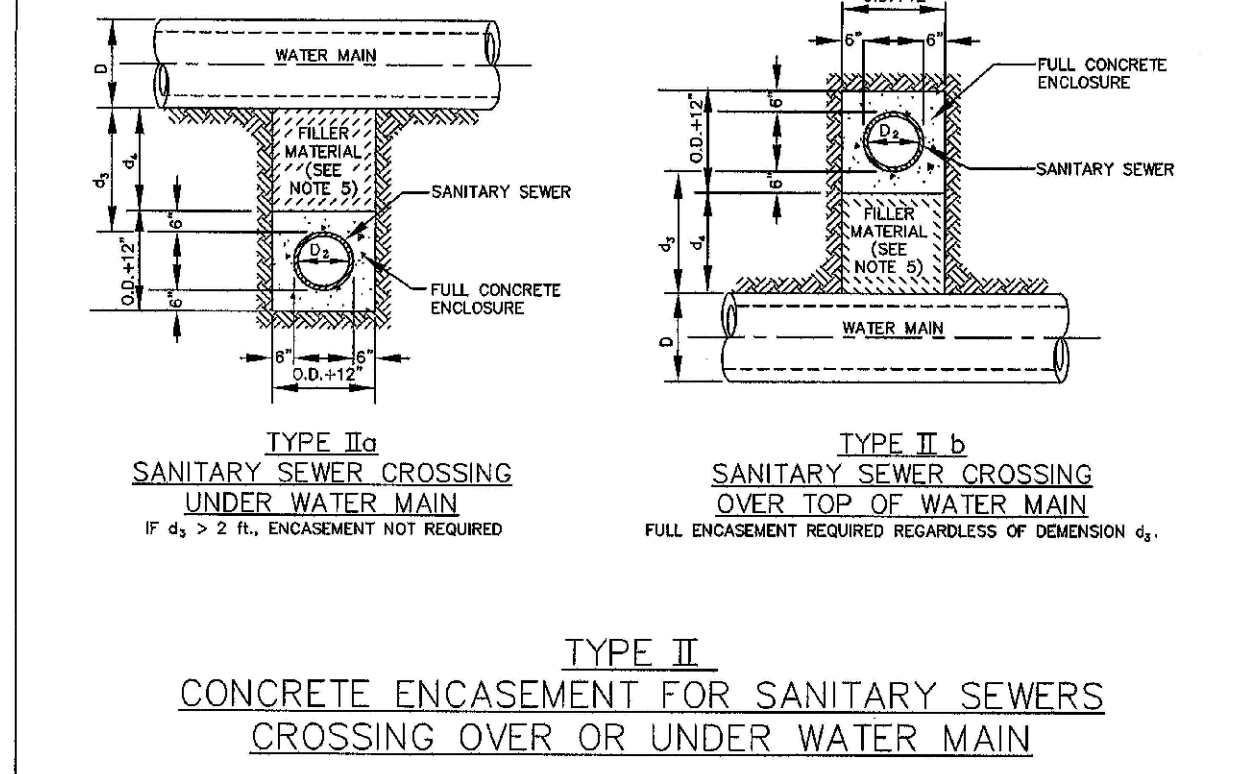
SCALE: NONE	DATE: 2/98
APPROVED: JFN	5/98
DISTRICT ENGINEER	

SHEET 1



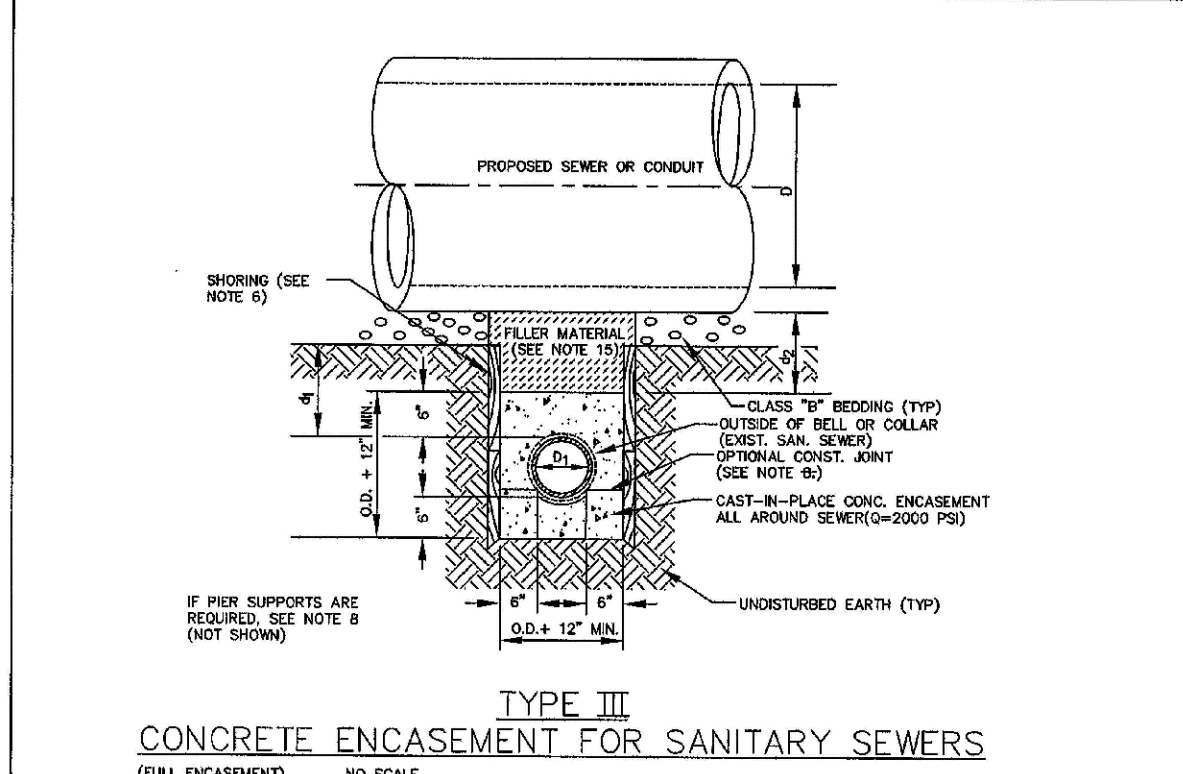
SCALE: NONE	DATE: 2/98
APPROVED: JFN	
DISTRICT ENGINEER	

SHEET 6



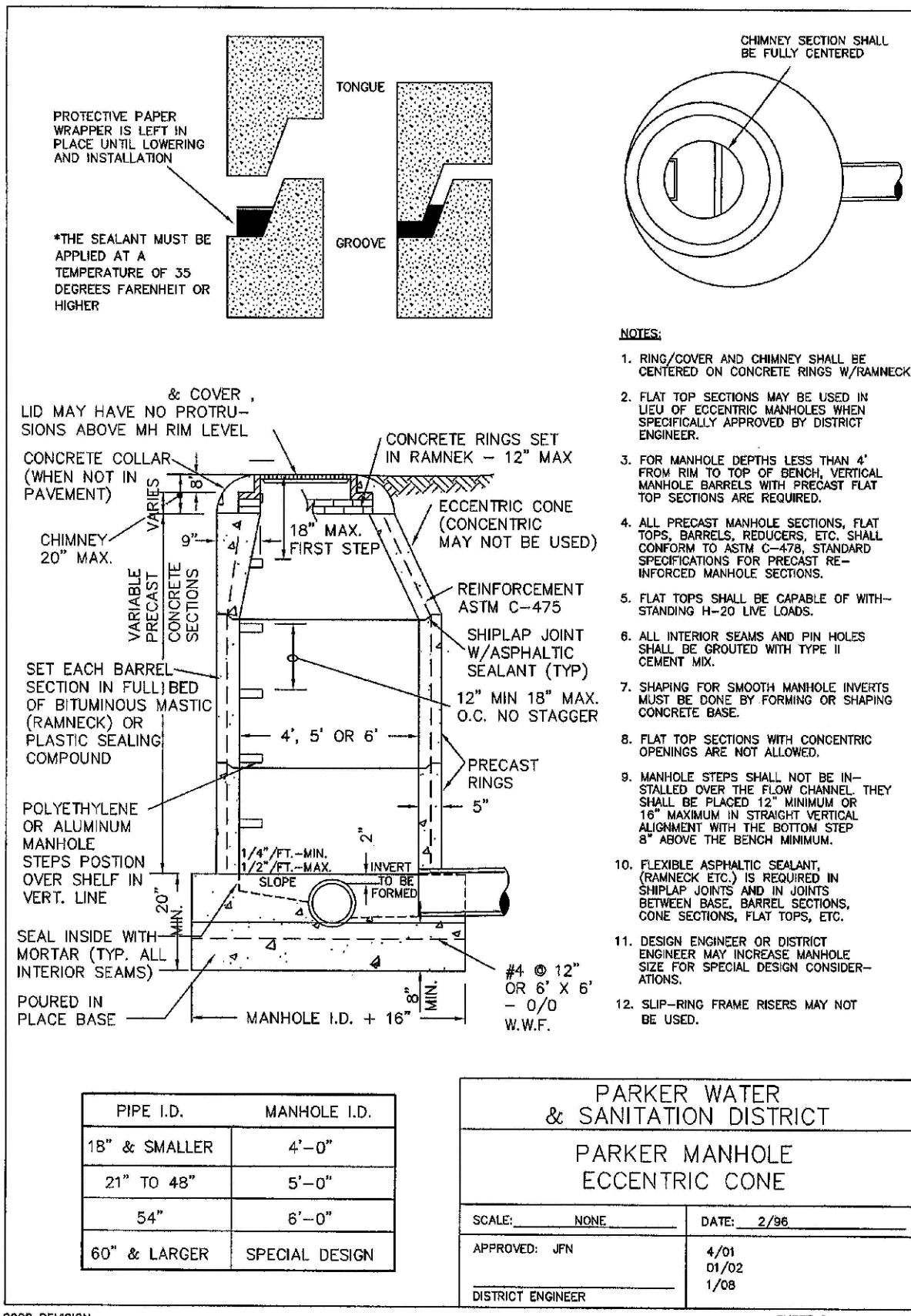
SCALE: NONE	DATE: 2/98
APPROVED: JFN	5/98
DISTRICT ENGINEER	4/01

SHEET 7



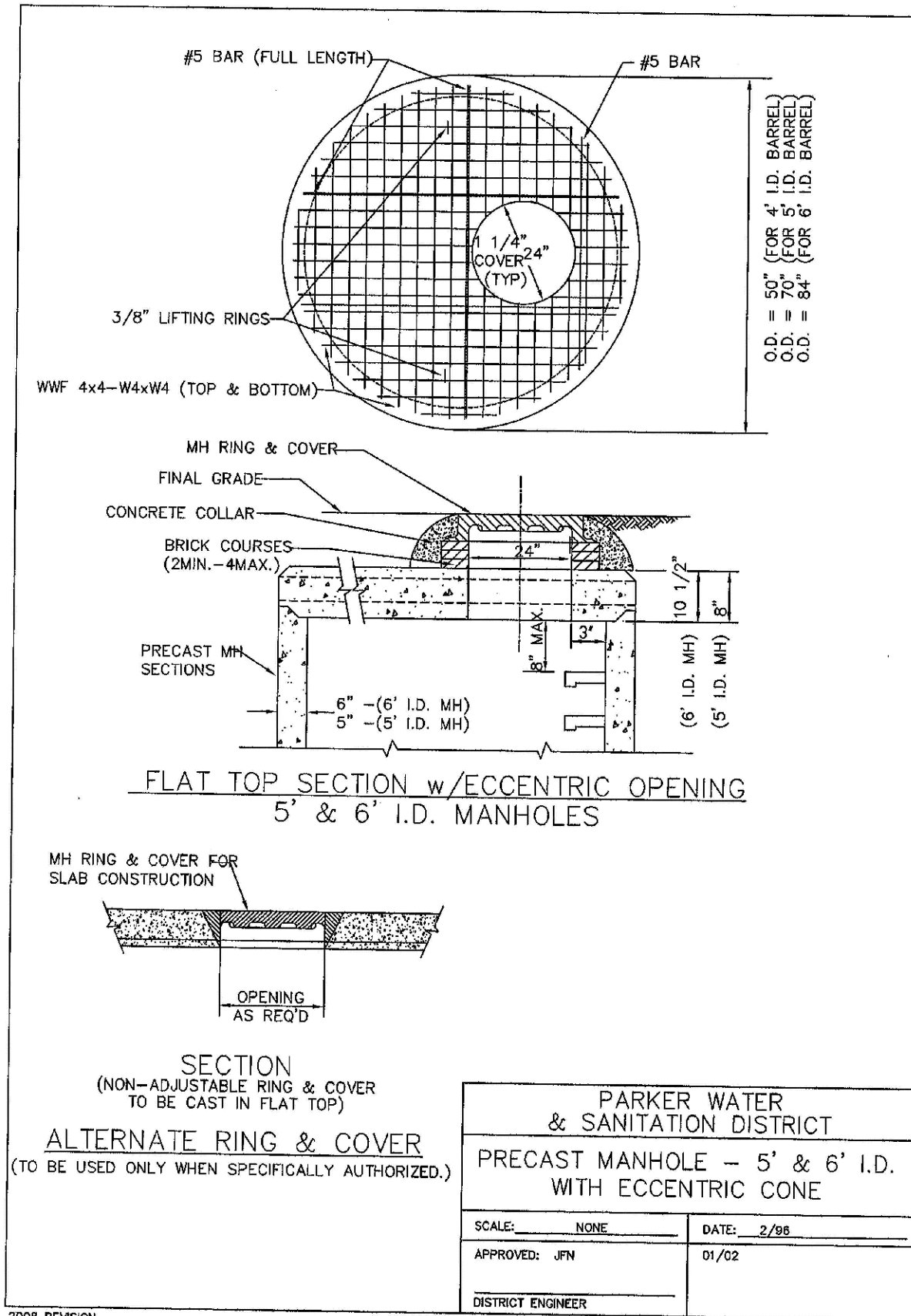
SCALE: NONE	DATE: 2/98
APPROVED: JFN	5/98
DISTRICT ENGINEER	

SHEET 8



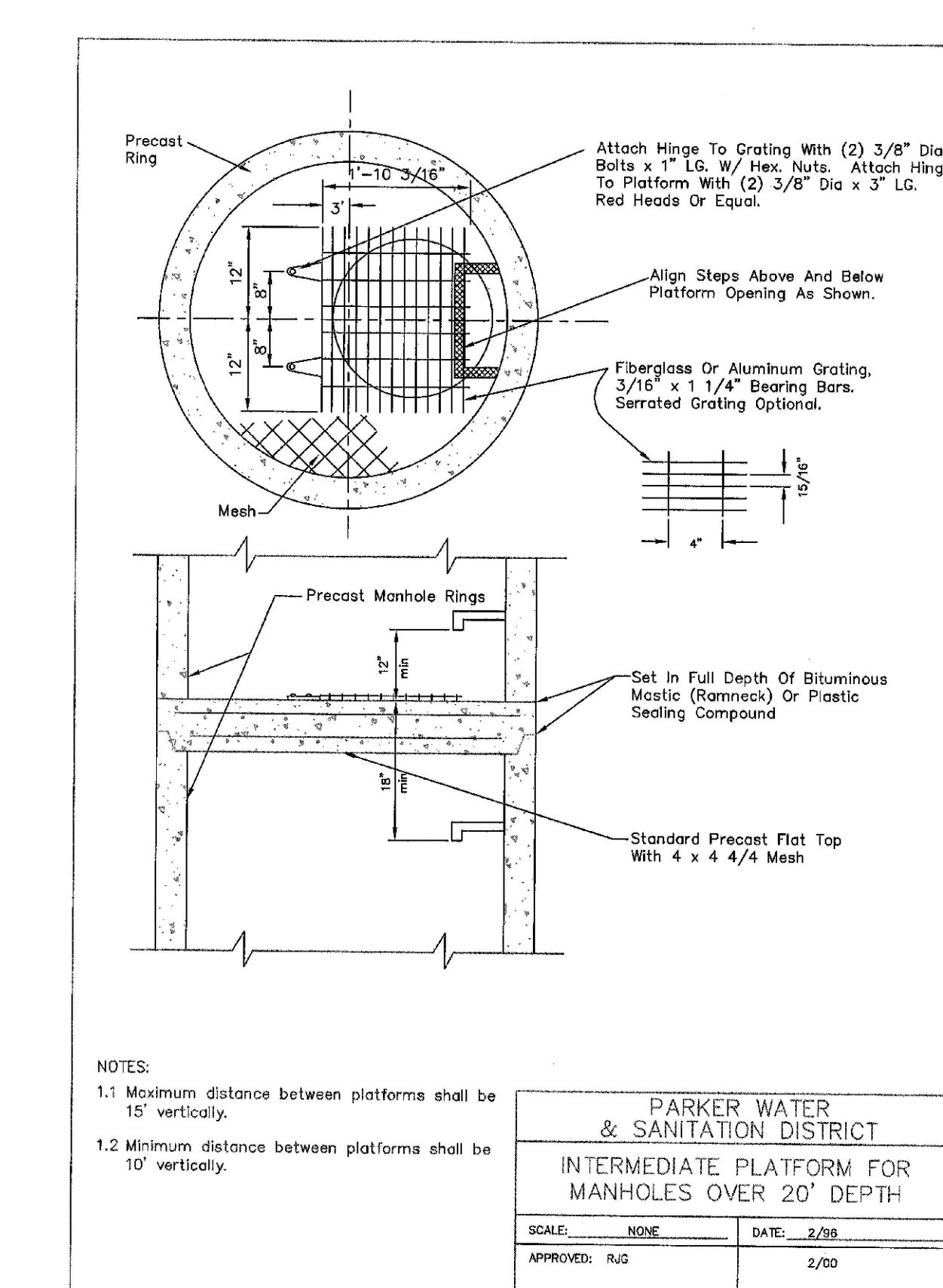
SCALE: NONE	DATE: 2/98
APPROVED: JFN	4/01
DISTRICT ENGINEER	01/02

SHEET 9



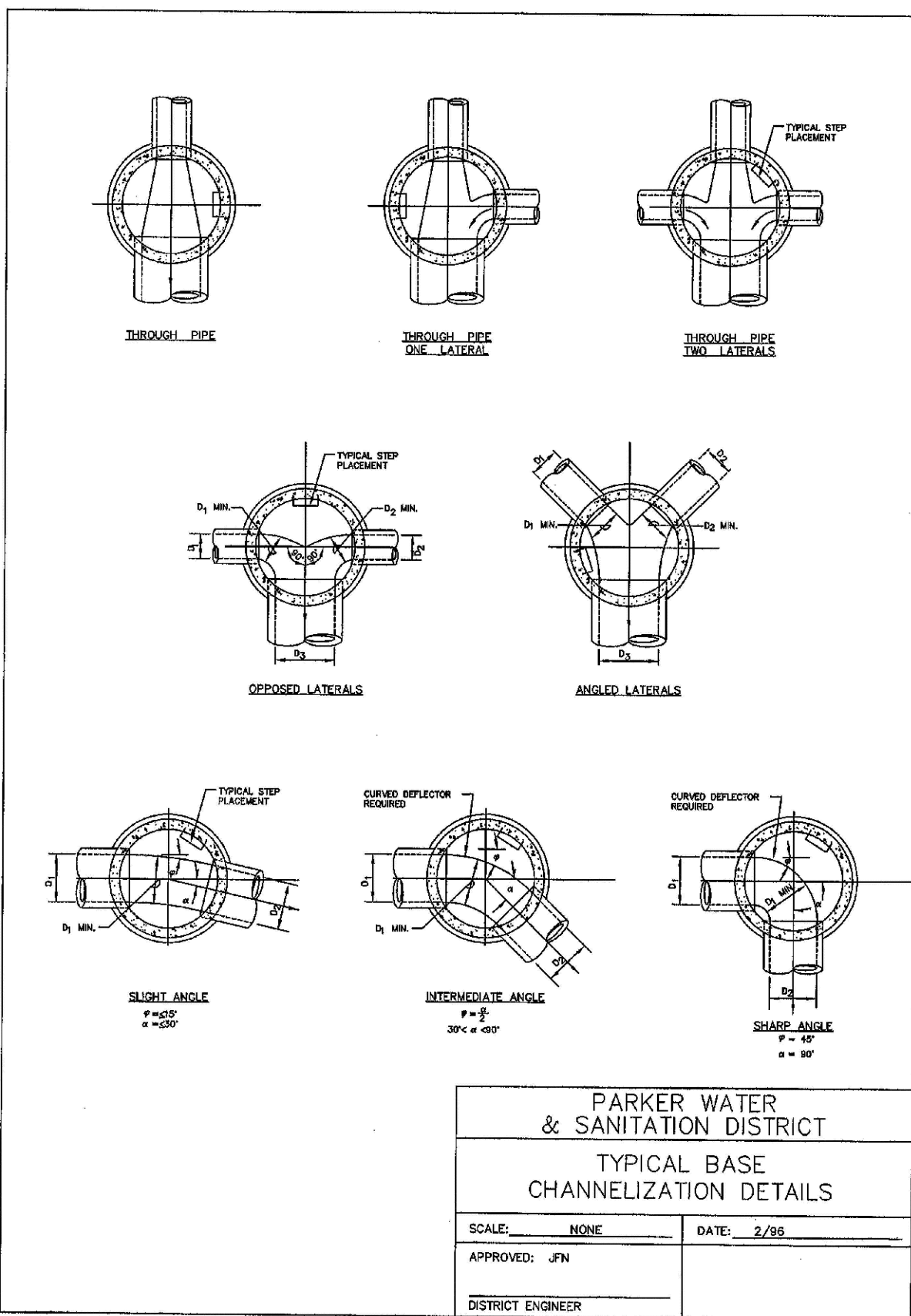
SCALE: NONE	DATE: 2/98
APPROVED: JFN	01/02
DISTRICT ENGINEER	1/08

SHEET 11



SCALE: NONE	DATE: 2/98
APPROVED: RJJ	2/00
DISTRICT ENGINEER	

SHEET 14



SCALE: NONE	DATE: 2/98
APPROVED: JFN	5/98
DISTRICT ENGINEER	

SHEET 15

N:\PROJECTS\SHES RANCH\CAD\ENGINEERING\SHES SETS\CD\SF\0PARKER WATER AND SANITATION\SANITARY SEWER DETAILS.DWG, LAURAC, 9/22/2017 3:51 PM



CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987

LITELTY NOTIFICATION
CENTER OF COLORADO

INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE (303-841-4627) AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 4:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.
4. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
5. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

INSTALLATION NOTES:

SEWER

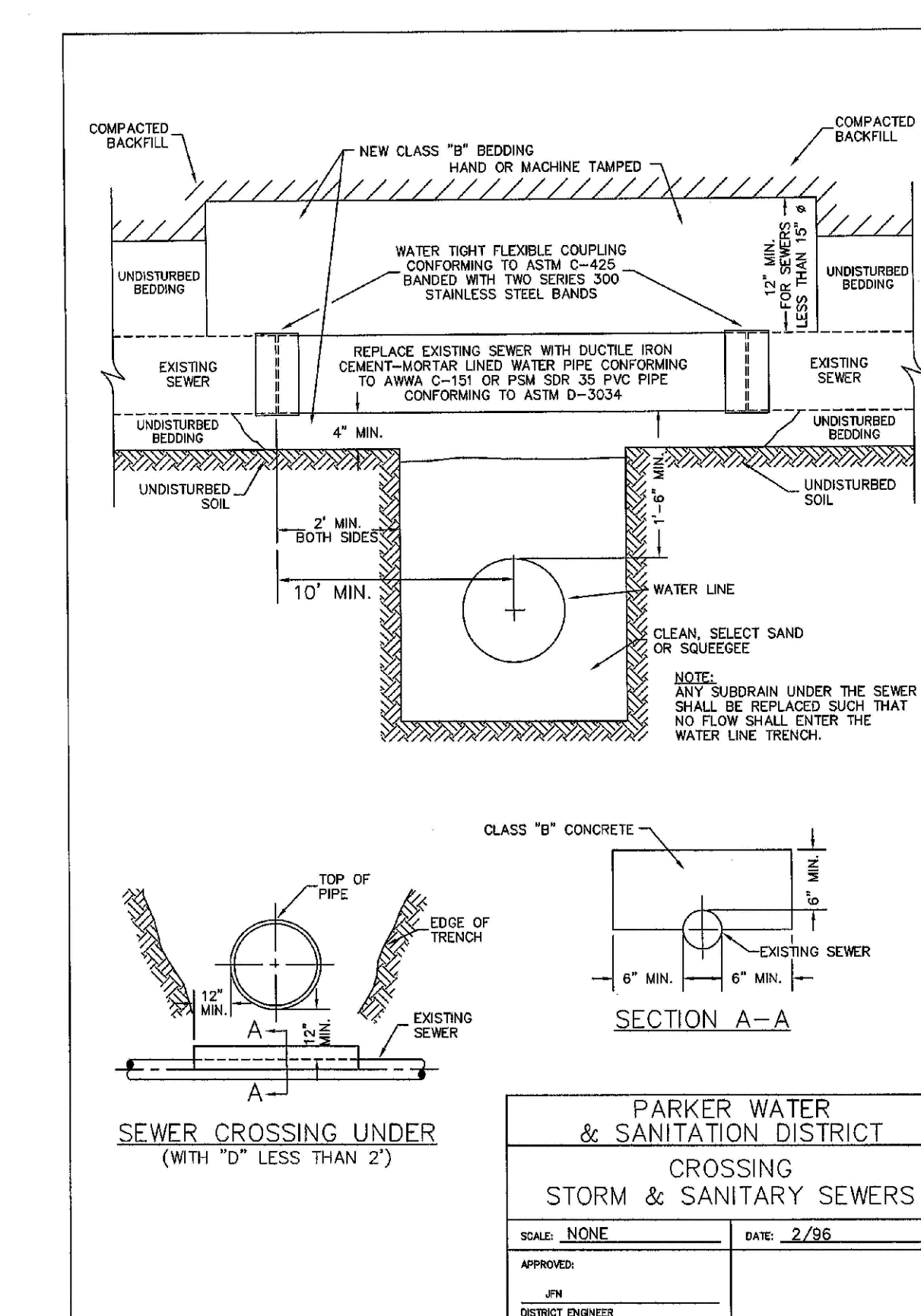
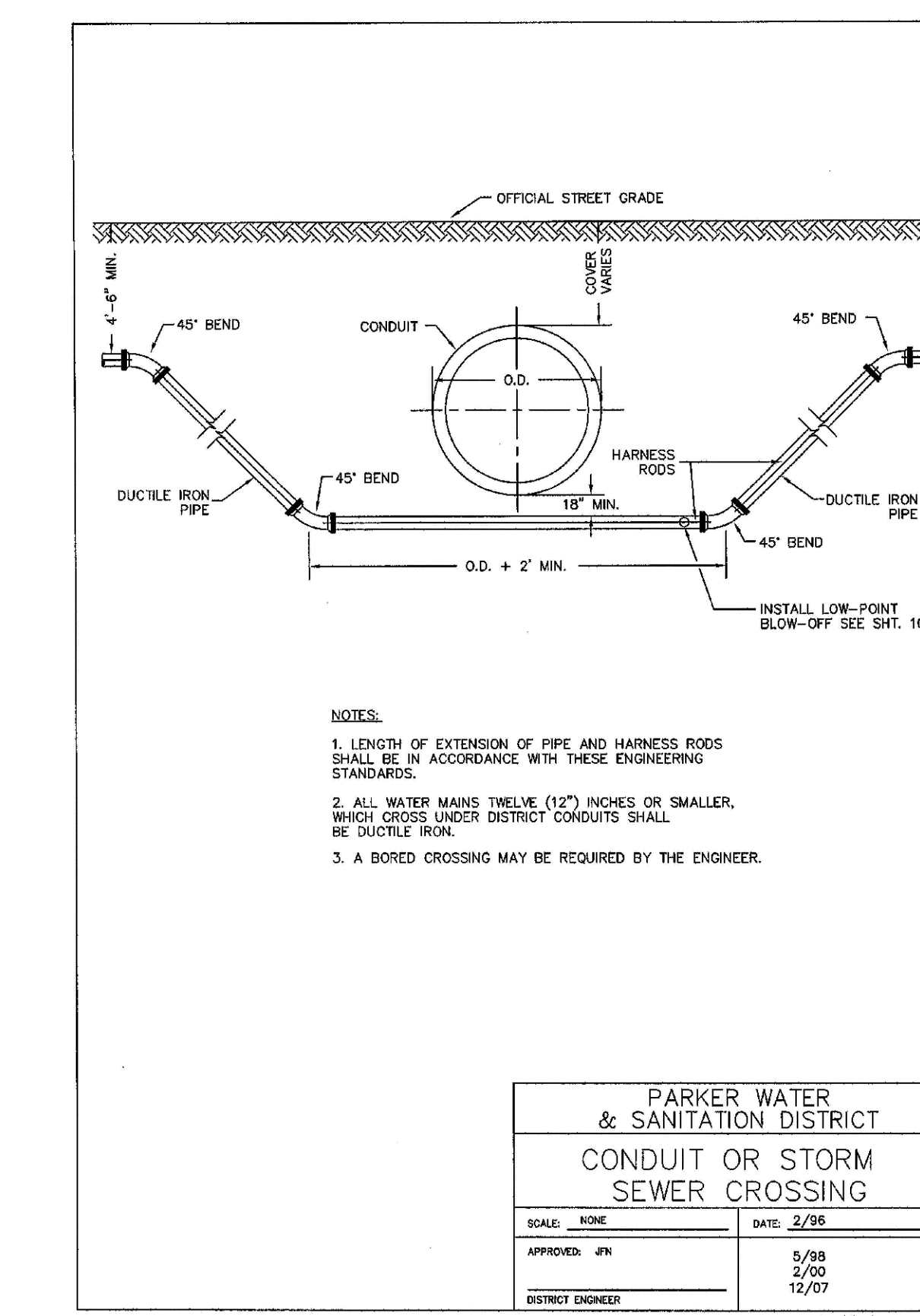
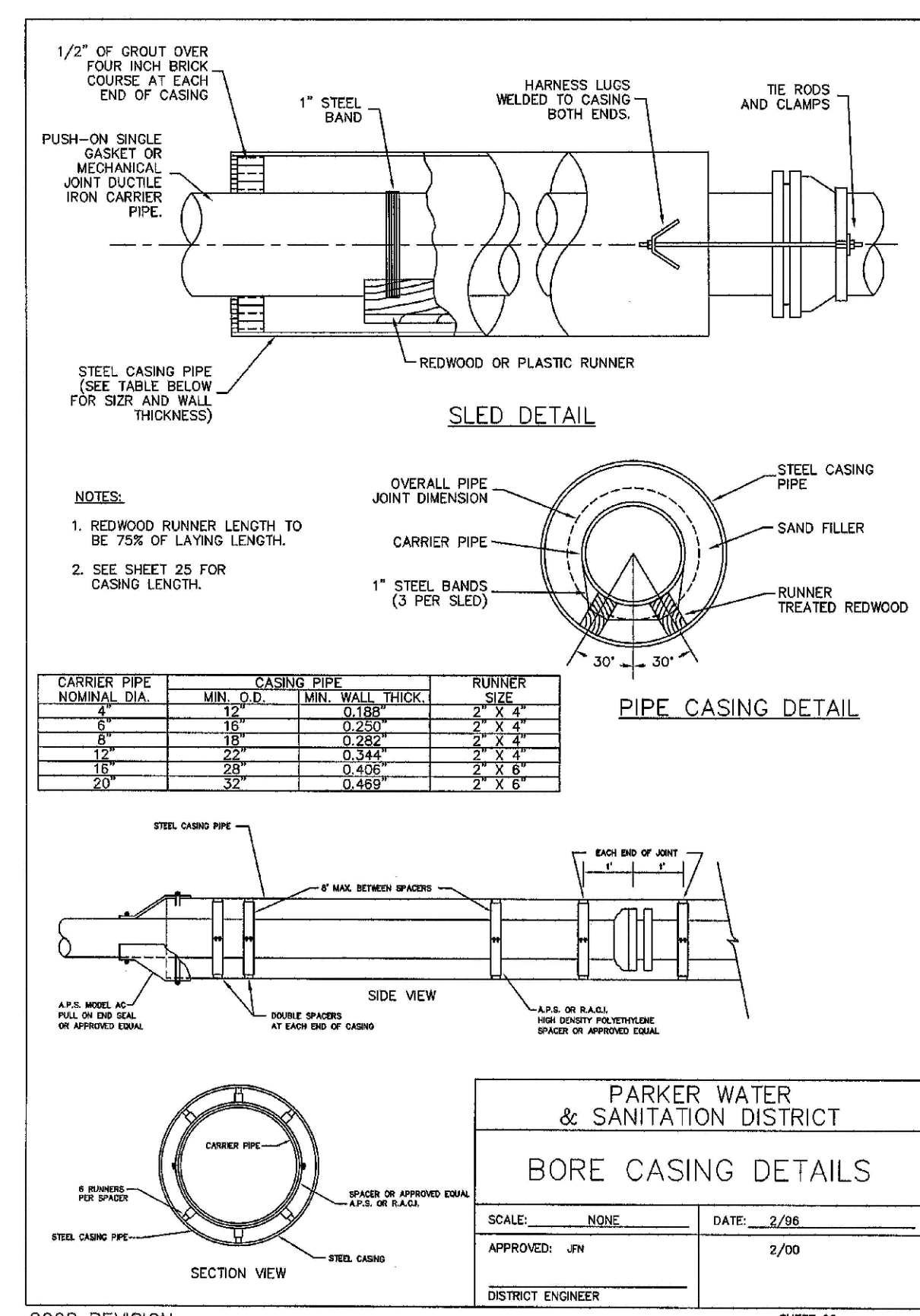
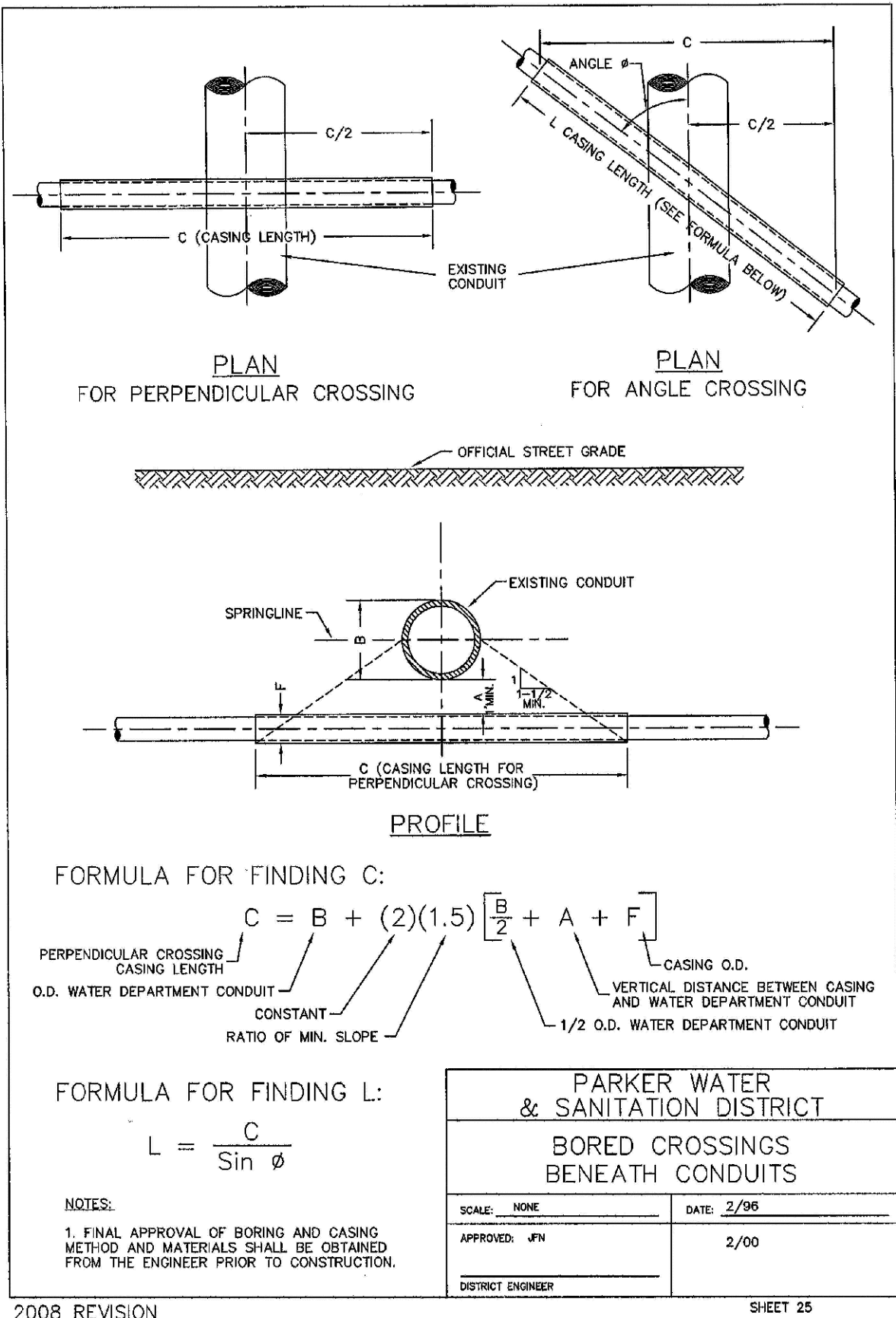
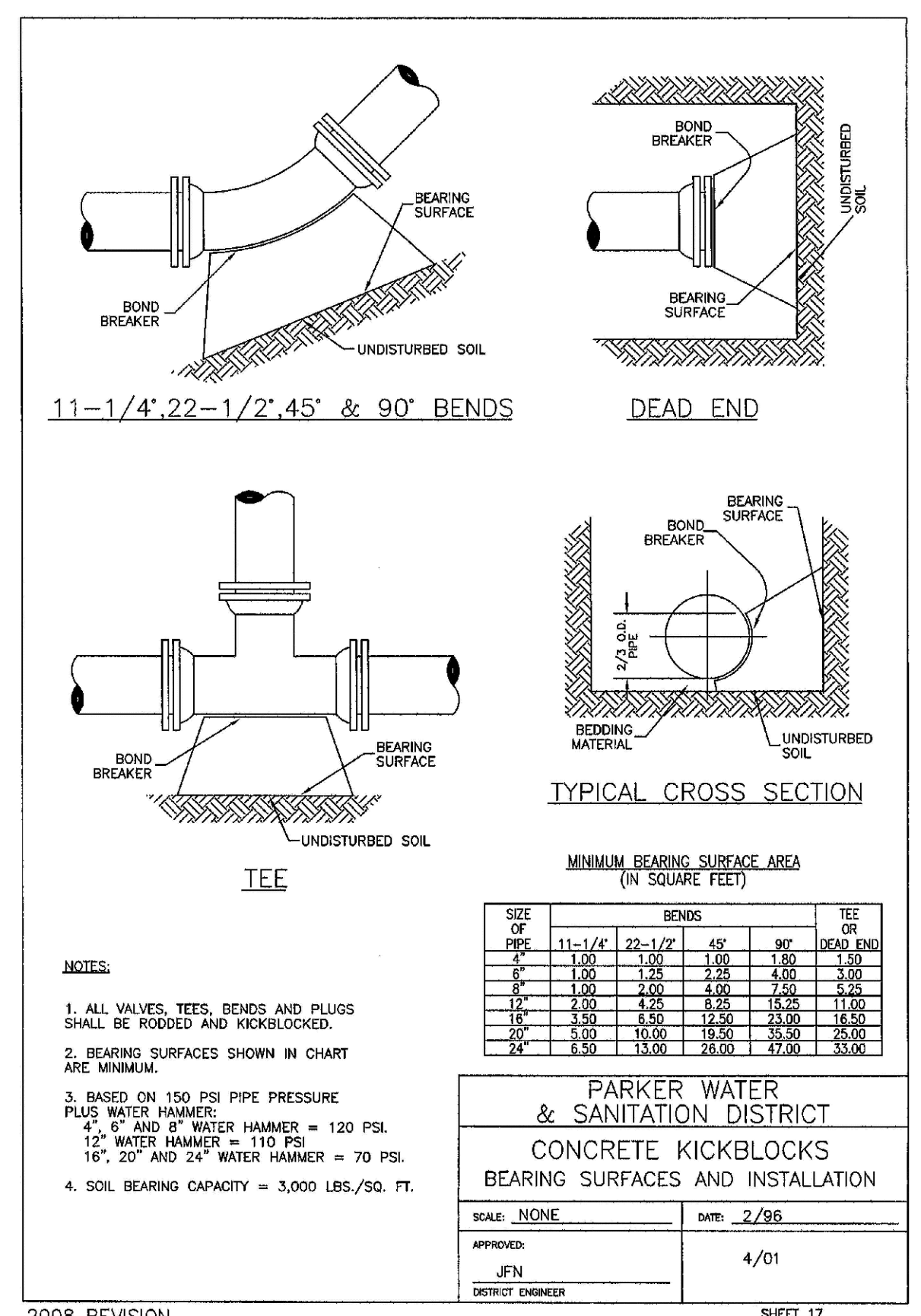
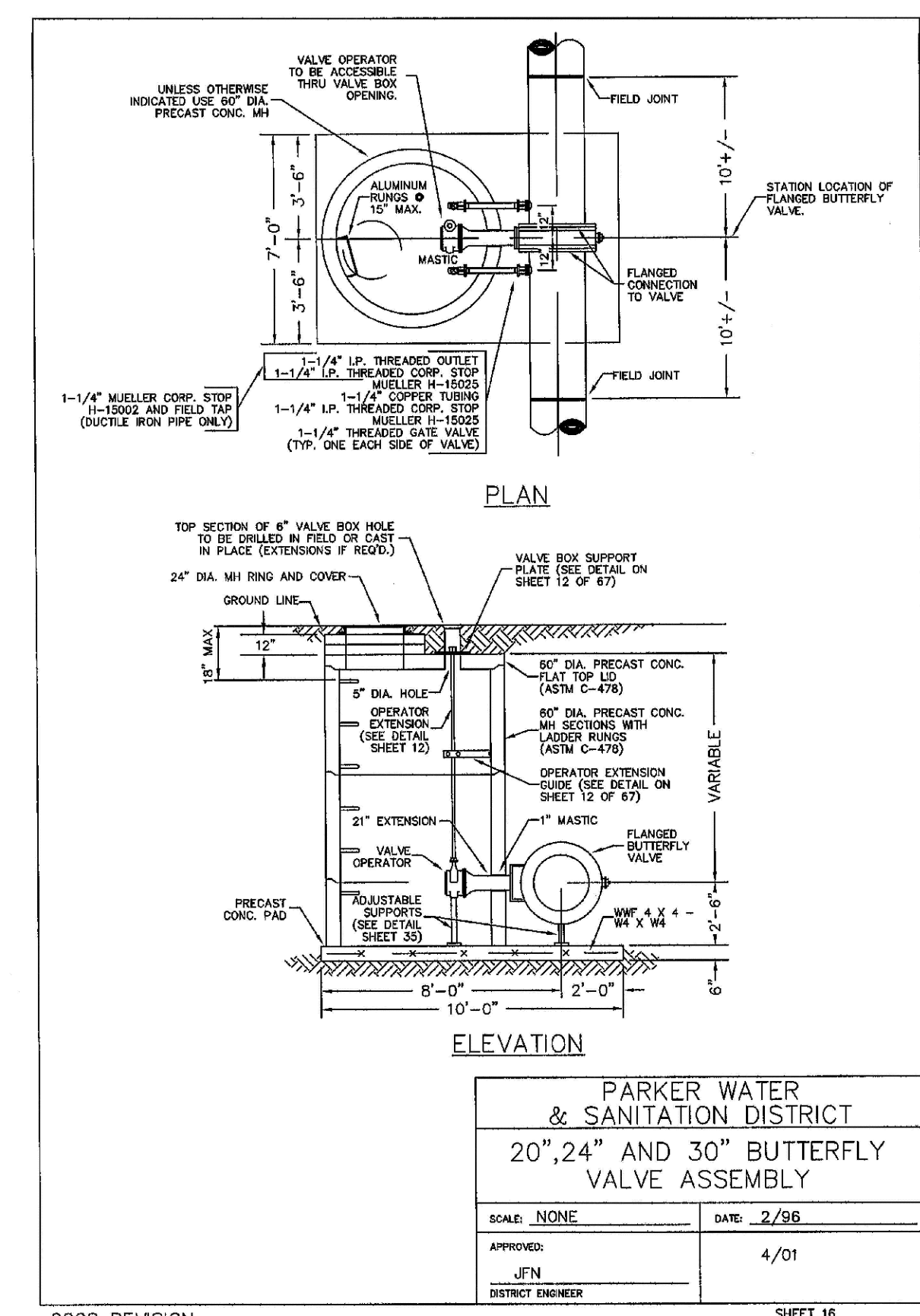
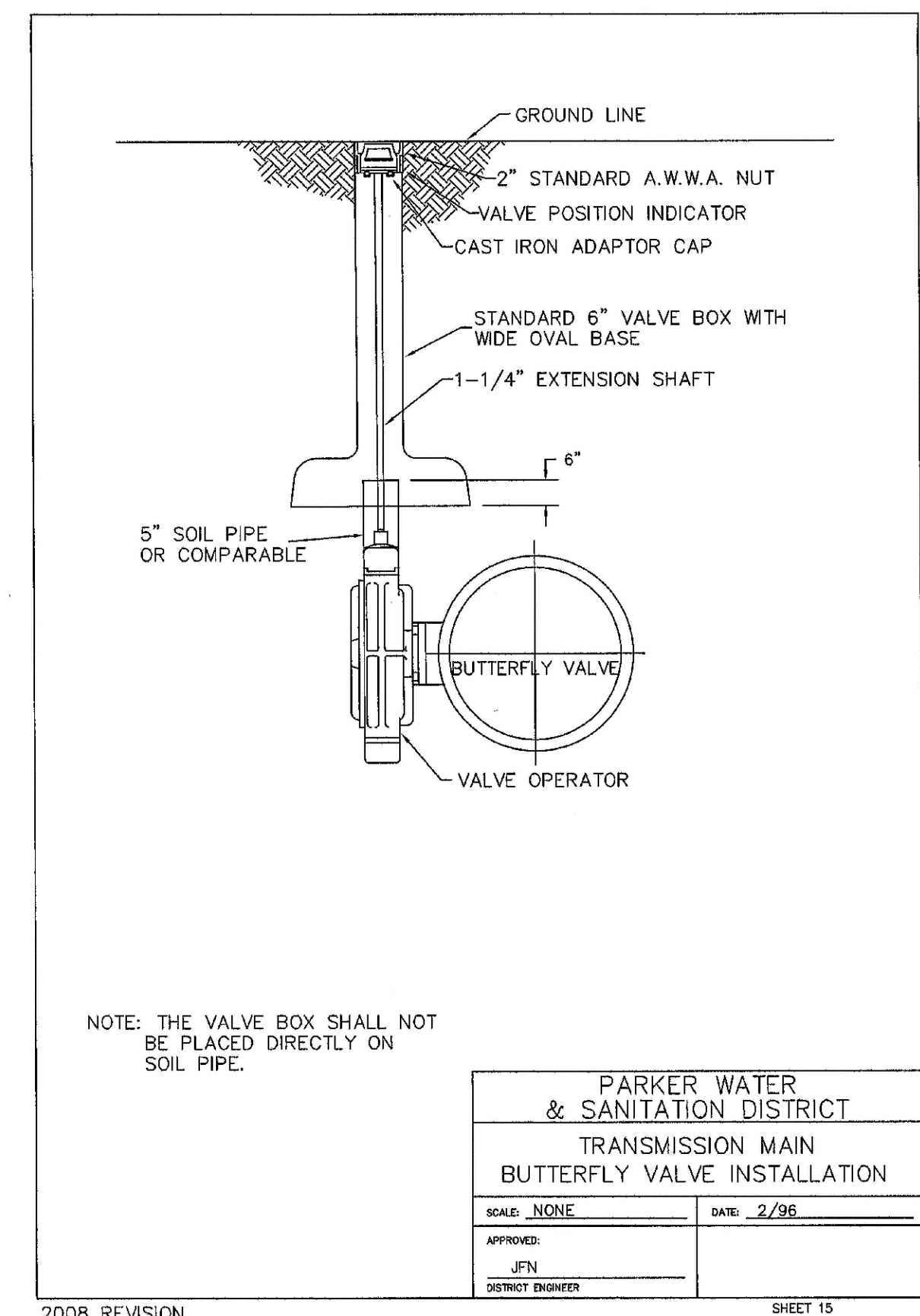
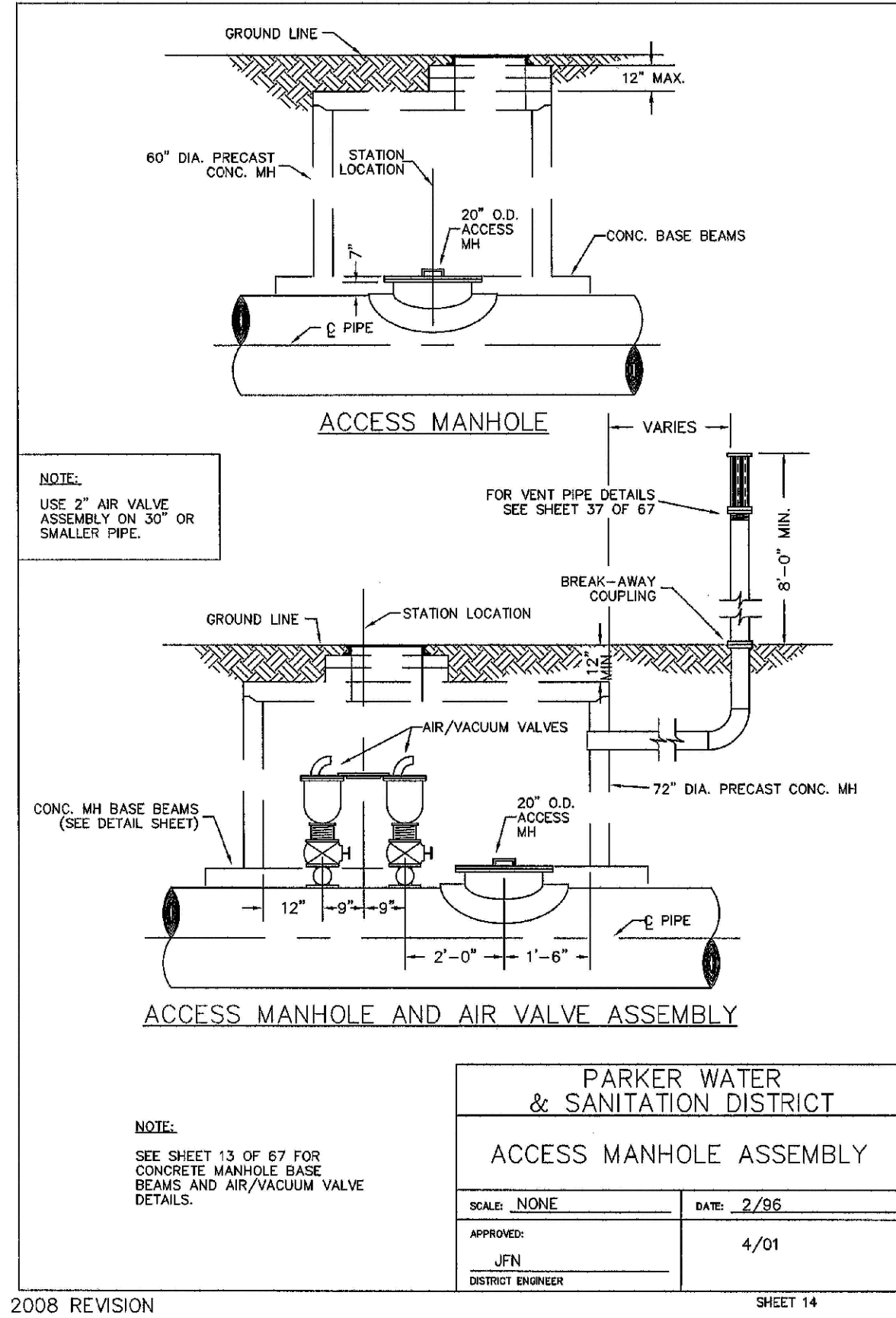
1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND CAST IRON CLASS 22 SOIL PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3'.
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100'.
6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.

PARKER WATER & SANITATION DISTRICT	
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES	
SCALE: NONE	DATE: 2/08
APPROVED: JFN	01/02 1/08
DISTRICT ENGINEER	

2008 REVISION

SHEET 28

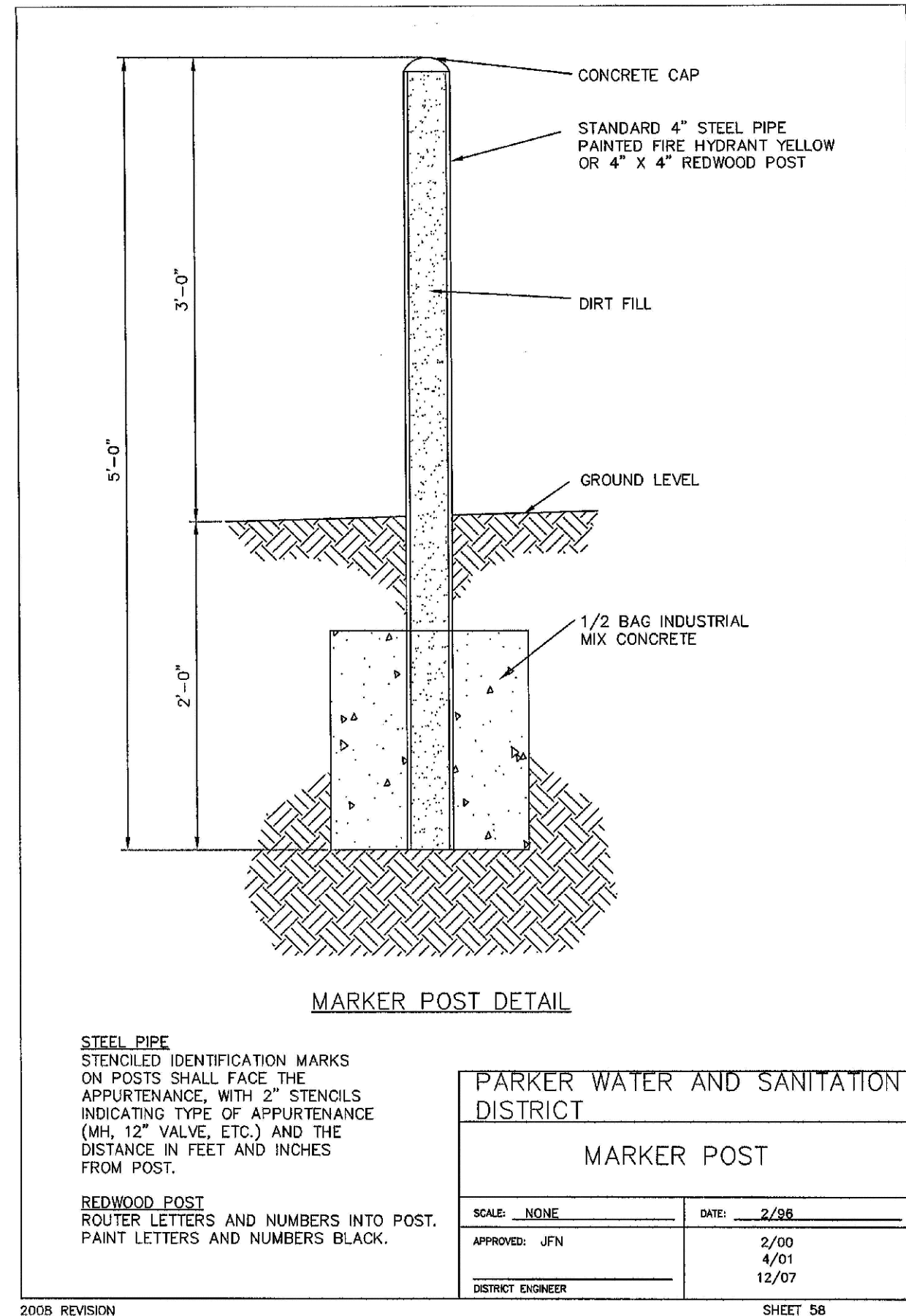
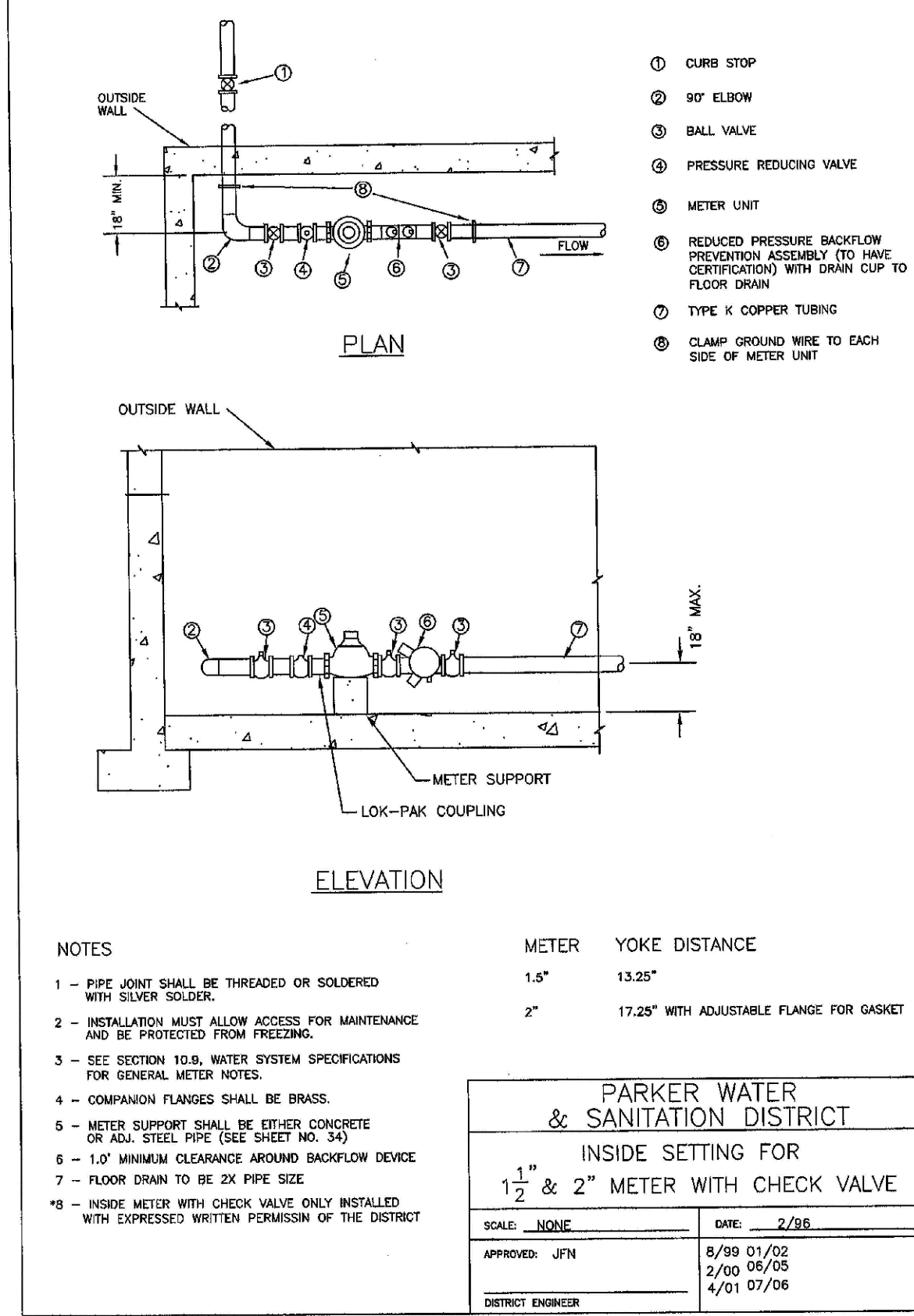
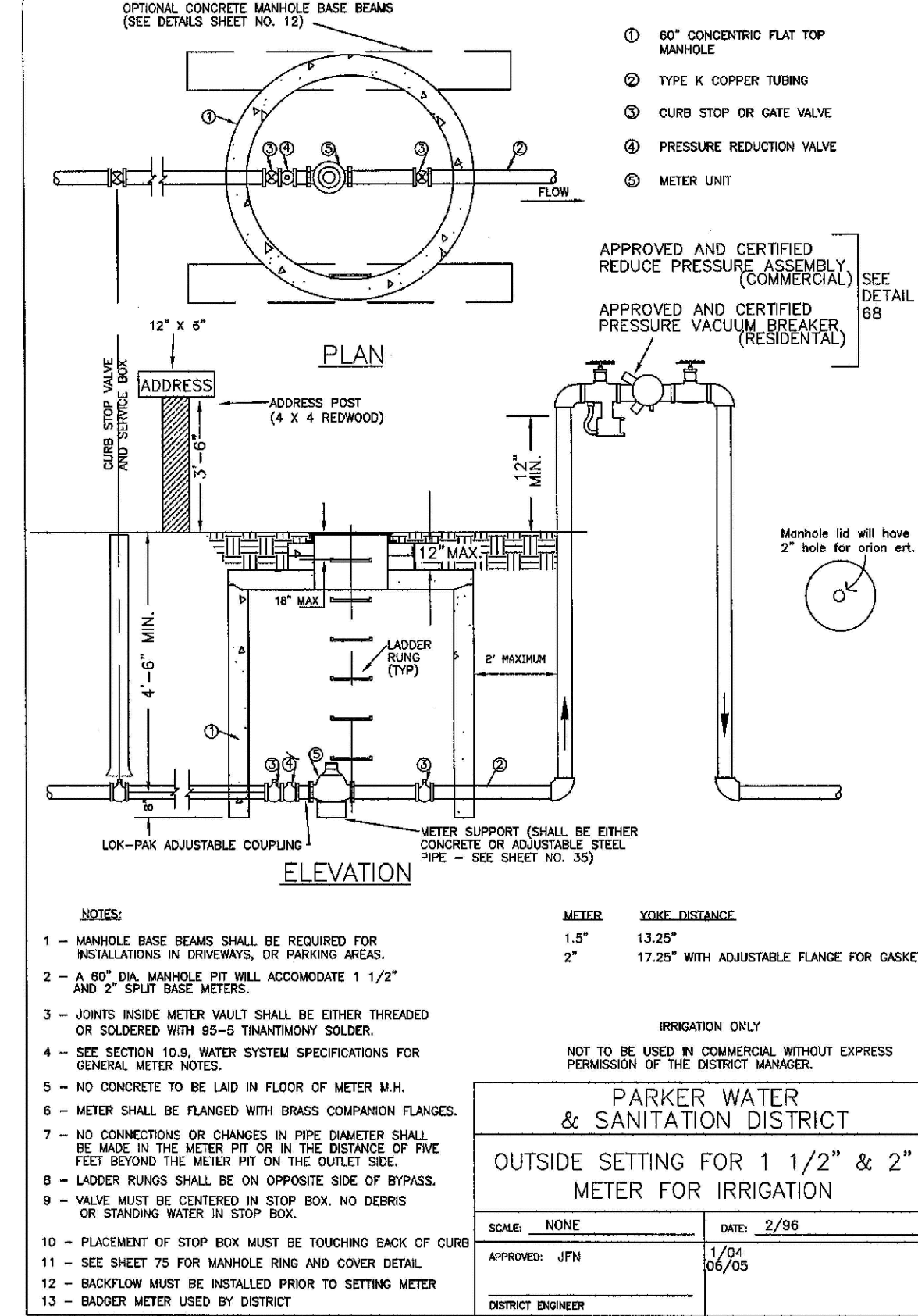
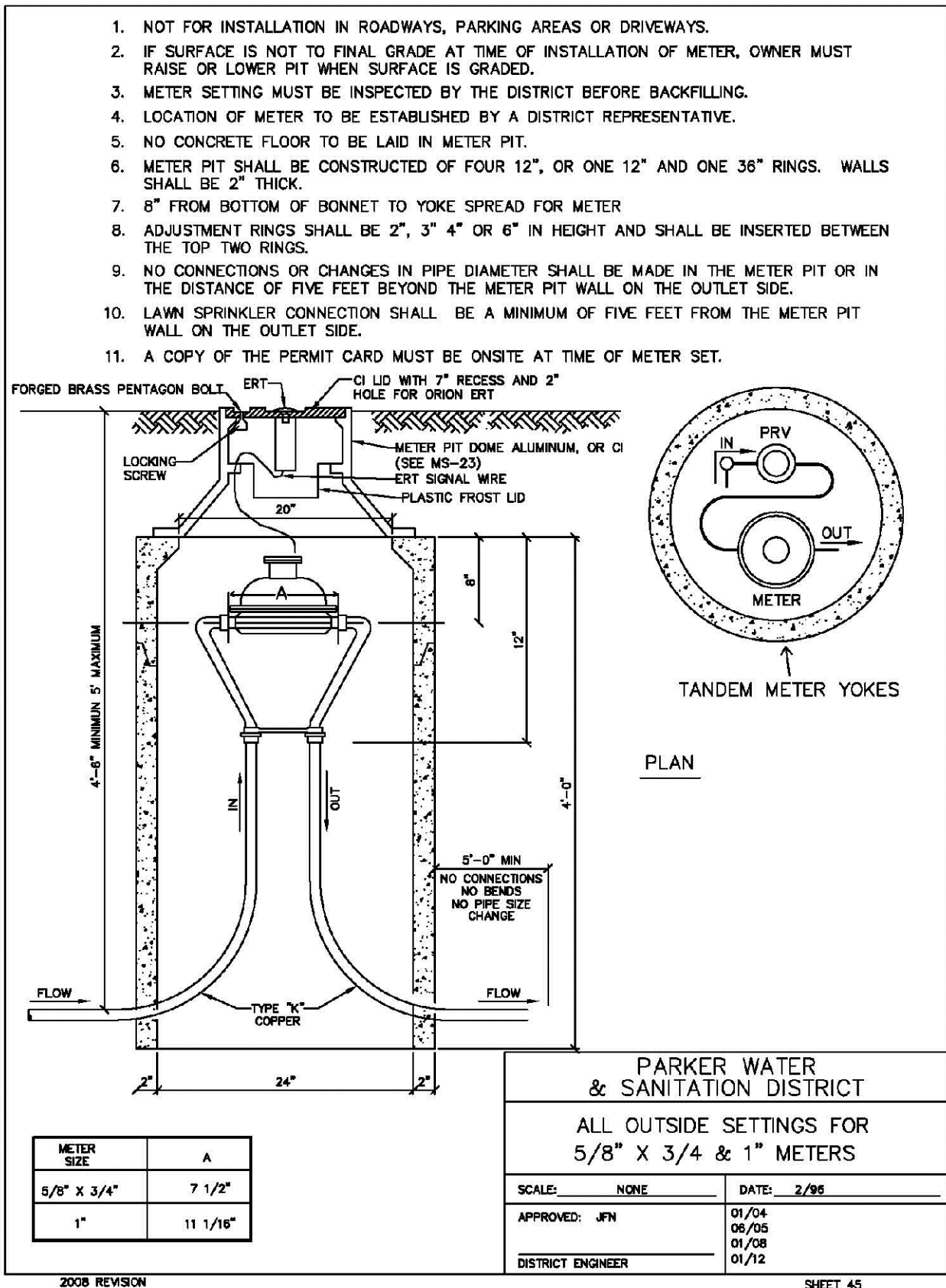
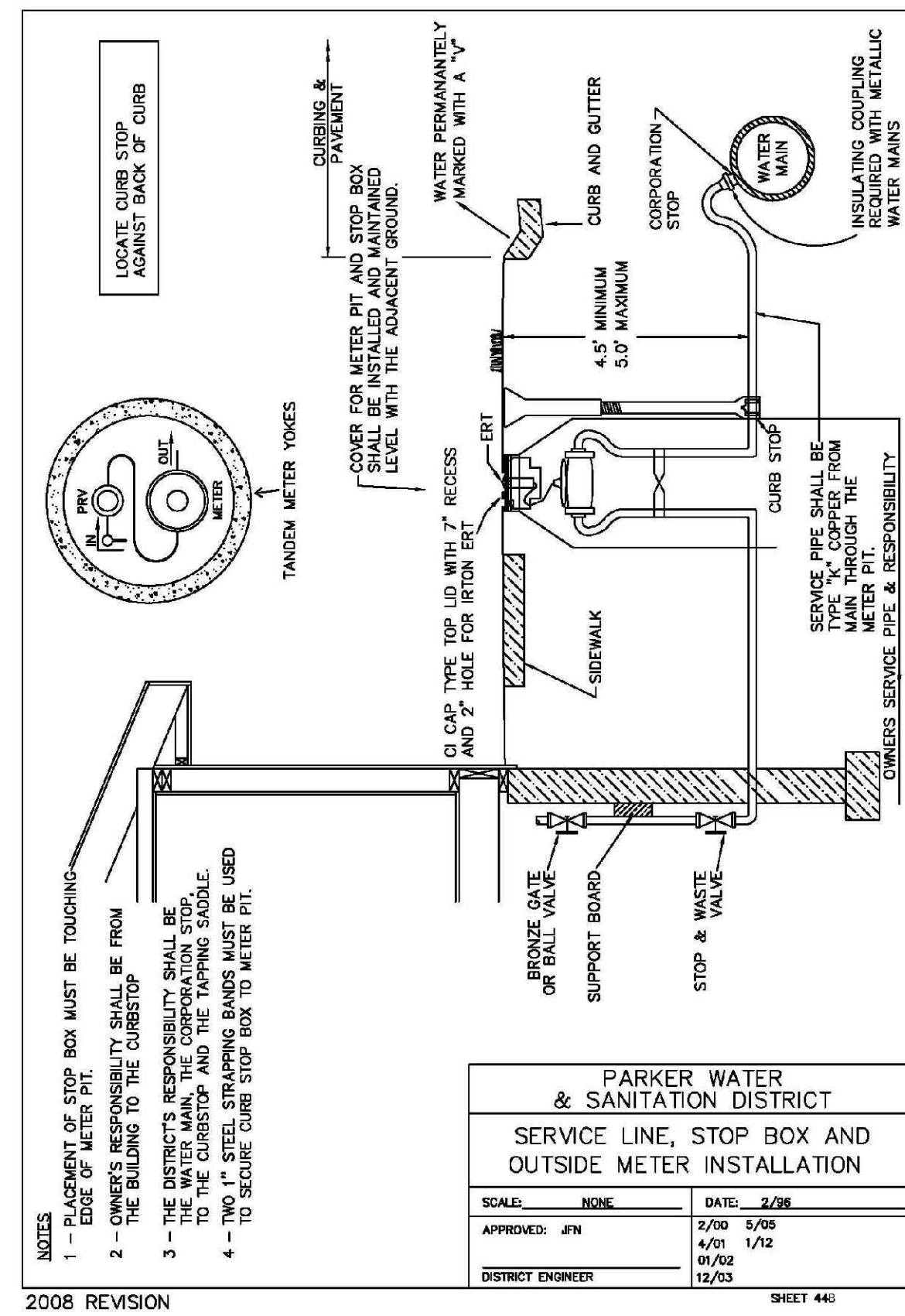
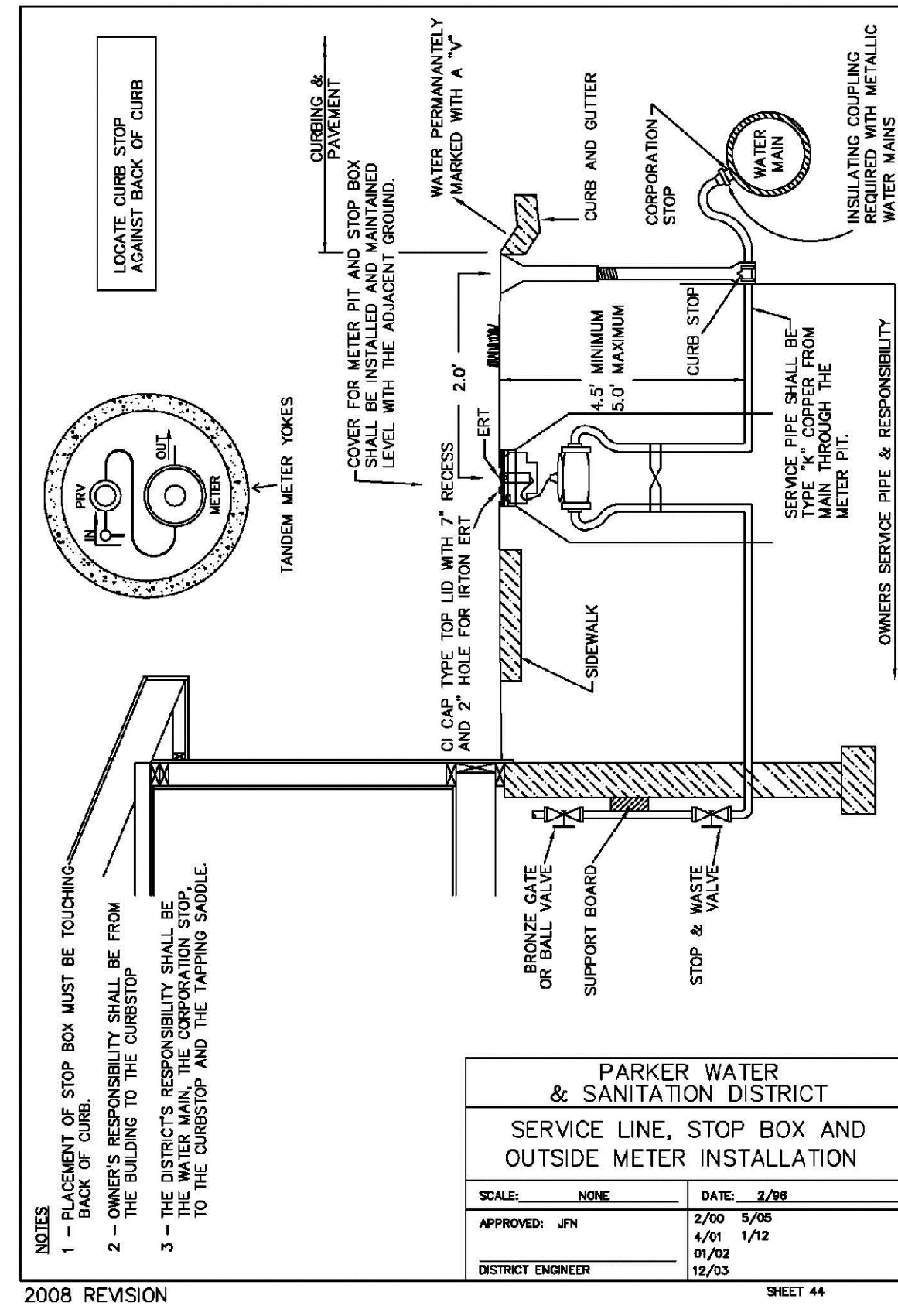
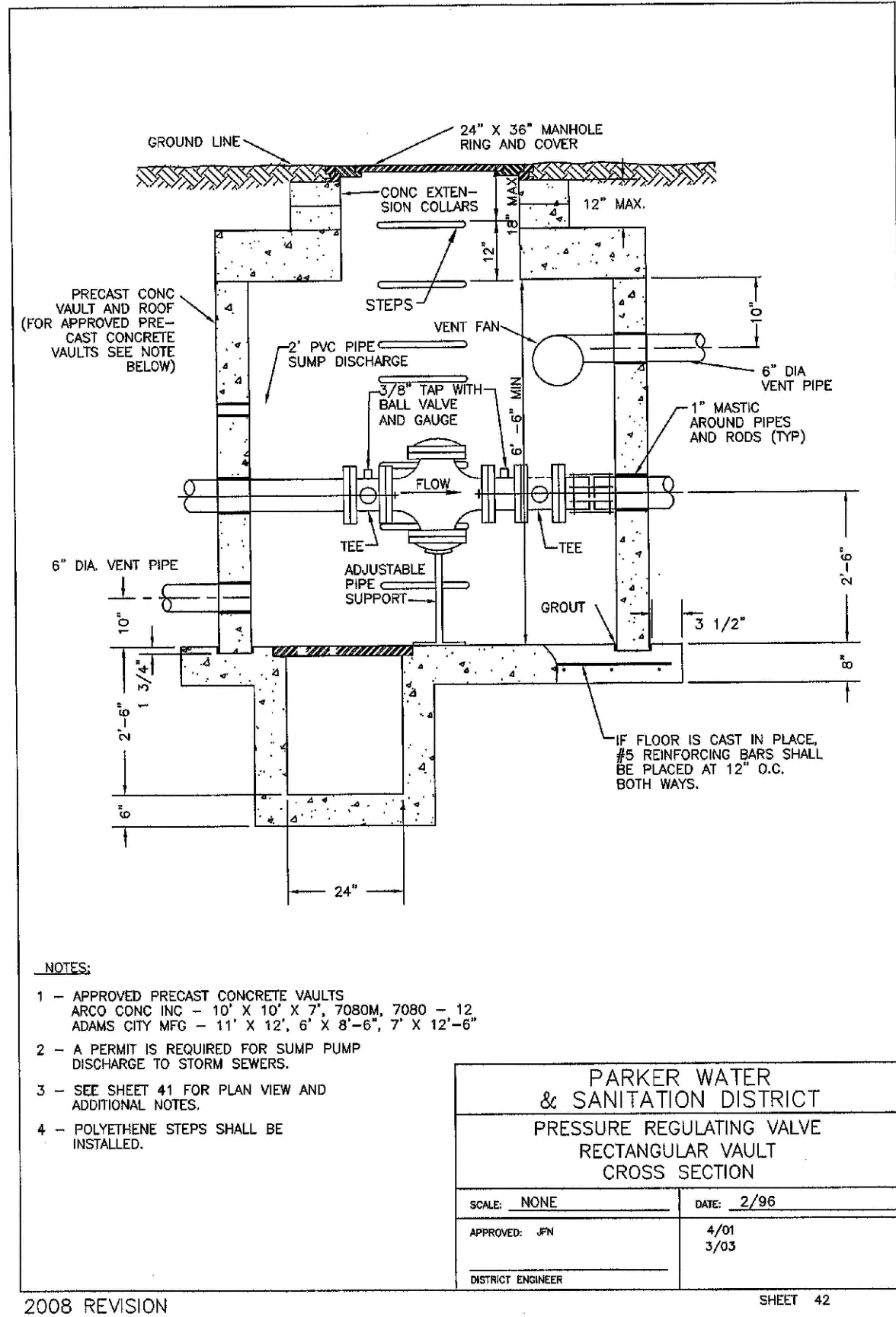
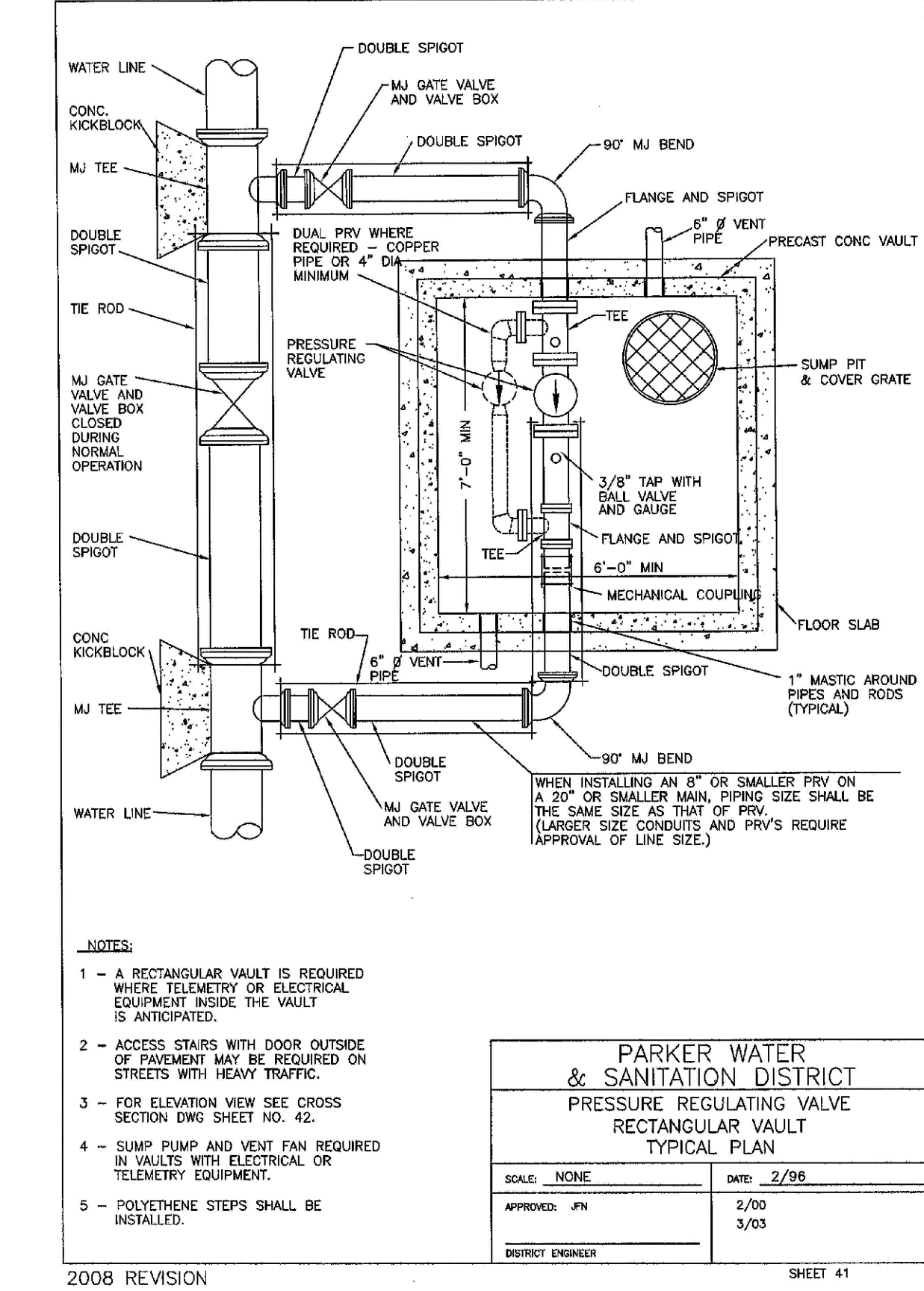
SHEET NUMBER 22	DRAWN BY: JF	SCALE: AS SHOWN	TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS SANITARY SEWER DETAILS	ESX MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		10333 E. Dry Creek Rd. Suite 410 Englewood, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546	No.	Revisions	Date	Init.	Appr.	Date
	CHECKED BY: JJ	FILE NO: 8130283701										
	DATE: SEPTEMBER 2017											



N:\PROJECTS\BENCH\ENGINEERING\DRAWING\SET\BDS\SF\09PARKER WATER AND SANITATION\WATER DETAILS.DWG, LAURAC, 6/23/2017 3:52 PM

CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
UNCC 1-800-922-1987
UTILITY NOTIFICATION
CENTER OF COLORADO

SHEET NUMBER	24	DATE: SEPTEMBER 2017	FILE NO: 8130283701	SCALE: AS SHOWN	DRAWN BY: JF	CHECKED BY: JF	DATE: SEPTEMBER 2017	PROJECT: TRAILS AT CROWFOOT FILING 10 CONSTRUCTION DRAWINGS WATER DETAILS	ESX MANAGEMENT 7353 South Alton Way CENTENNIAL, CO 80112		10333 E. Dry Creek Rd. Centennial, CO 80110 Tel: (720) 482-9526 Fax: (720) 482-9546	Revisions	Init.	Date	Appr.	Date		



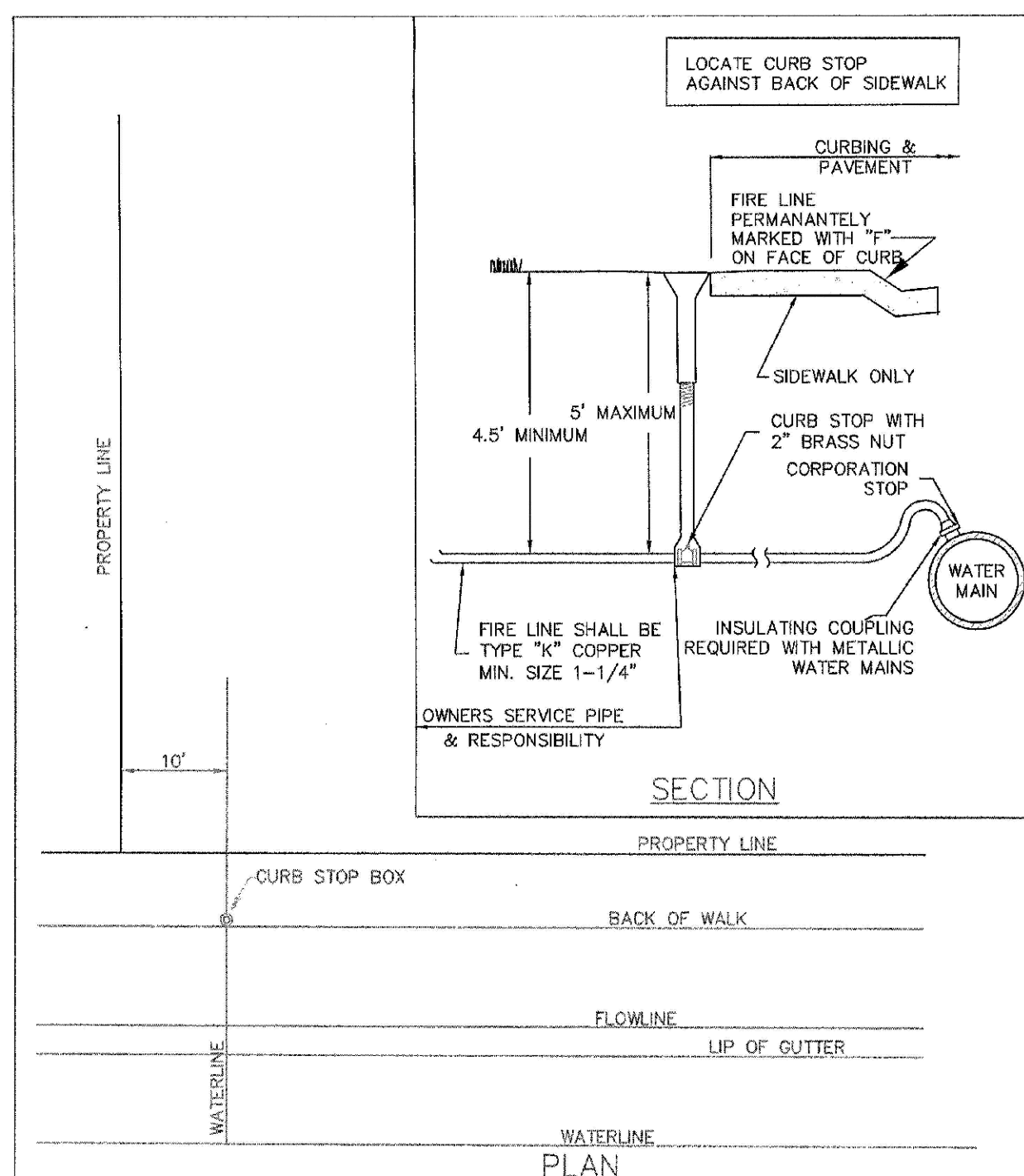


- NOTES:
1. ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE I PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-7% ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".
 2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
 3. ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.
 4. THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.

PARKER WATER & SANITATION DISTRICT	
WATERLINE ENCASEMENT	
SCALE: NONE	DATE: 5/98
APPROVED: JFN	
DISTRICT ENGINEER	

2008 REVISION

SHEET 70

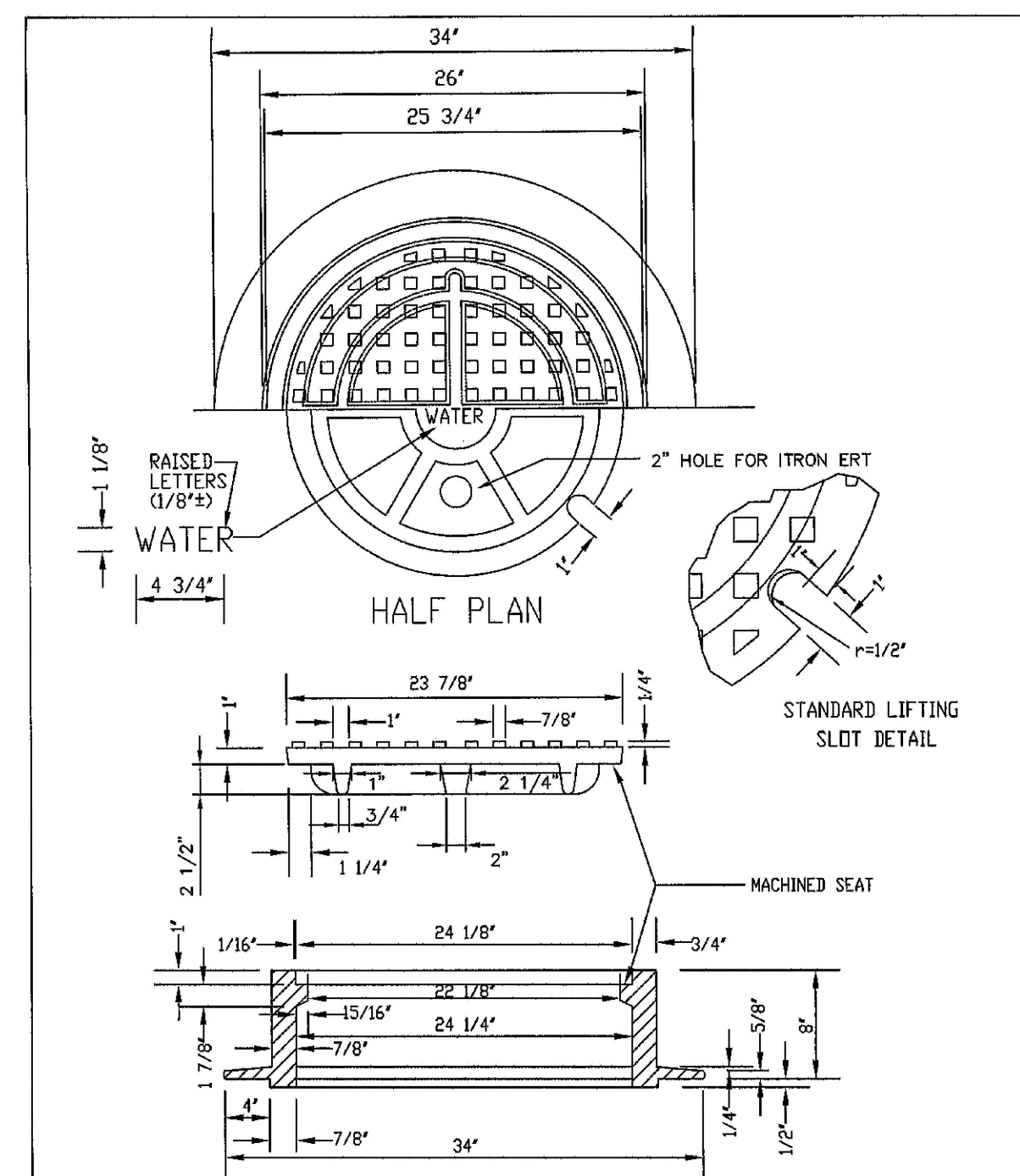


- NOTES:
1. AN "F" WILL BE PERMANENTLY MARKED ON CURB FACE OVER FIRE LINE.
 2. DOMESTIC WATER SERVICE SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET FROM THE FIRE LINE.
 3. SANITARY SEWER SERVICE SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET FROM THE WATER SERVICE (EITHER DOMESTIC OR FIRE LINE).

PARKER WATER & SANITATION DISTRICT	
RESIDENTIAL FIRE LINES	
SCALE: NONE	DATE: 8/99
APPROVED: RJG	2/00 06/05 12/07
DISTRICT ENGINEER	

2008 REVISION

SHEET 73



- NOTE:
1. Casting Specifications: ASTM A-48 With A Minimum Tensile Strength Of 25 KSI (Class 25)
 2. All Casting To Be Dipped In Asphalt Base Paint (Or Approved Equal)

PARKER WATER & SANITATION DISTRICT 24" DIAMETER RING AND COVER	
SCALE: <u>NONE</u>	DATE: <u>6/15</u>
APPROVED: <u>JFN</u>	12/07
_____ DISTRICT ENGINEER	

2006 REVISION

SHEET 73



**CALL 811
TWO WORKING DAYS
BEFORE YOU DIG
1-800-922-1987**